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Form 3160-4
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2021

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Competion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator

8. Well Name and Well No.

3. Address

3a. Phone No. *(Include area code)*

9. API Well No.

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface

At top prod. interval reported below

At total depth

10. Field and Pool or Exploratory

11. Sec., T., R., M., on Block and Survey or Area

12. County or Parish

13. State

14. Date Spudded

15. Date T.D. Reached

16. Date Completed
☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

18. Total Depth: MD
TVD

19. Plug Back T.D.: MD
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☐ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom
A)		
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org when required by state or federal regulation

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* _____ Title _____

Signature _____ Date _____

Title 18 U.S C. Section 1001 and Title 43 U.S C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.
ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.
ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.
ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.
This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.
Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Information
Location information: 00S1

SHL: NESE / 2390 FSL / 952 FEL / TWSP: 25S / RNG: 33E / SEC: 19 / LAT: 32.115401 / LONG: -103.6059193
KOP: NESE / 2538 FSL / 288 FEL / TWSP: 25S / RNG: 33E / SEC: 19 / LAT: 32.1158085 / LONG: -103.6037737
PPP: NESE / 2269 FSL / 300 FEL / TWSP: 25S / RNG: 33E / SEC: 19 / LAT: 32.1150694 / LONG: -103.6038131
EXIT: SESE / 135 FSL / 334 FEL / TWSP: 25S / RNG: 33E / SEC: 30 / LAT: 32.0946919 / LONG: -103.6039328
BHL: SESE / 110 FSL / 333 FEL / TWSP: 25S / RNG: 33E / SEC: 30 / LAT: 32.0946232 / LONG: -103.6039314

Summary of Porous Zones Information:

Formation: CHERRY CANYON, Descriptions, Contents, etc: null, Bottom: 5977
Formation: BRUSHY CANYON, Descriptions, Contents, etc: null, Bottom: 7469
Formation: BONE SPRING LIME, Descriptions, Contents, etc: null, Bottom: 9053
Formation: FIRST BONE SPRING SAND, Descriptions, Contents, etc: null, Bottom: 10022
Formation: BONE SPRING 2ND, Descriptions, Contents, etc: null, Bottom: 10508

Attachments: 00S1

Log Attachments:
1) Audacious_19_Fed_Com_510H_5in_FINAL_MD_20220201153239.pdf
2) AUDACIOUS_19_FED_COM_510H_CBL_20230814095640.pdf
3) Audacious_19_Fed_Com_510H_ST01_Final_PVA_20220201153300.pdf
4) Audacious_19_Fed_Com_510H_ST01_Final_Surveys_20220201153317.pdf
5) AUDACIOUS_19_FED_COM_510H_as_completed_plat_20230814095611.pdf

Avalanches 10-Feet Cone S1204

Site Information

Location: Avalanches 10-Feet Cone S1204
Operator: Avalanches 10-Feet Cone S1204
Comment: Avalanches 10-Feet Cone S1204
Site ID: 1204
Instrument: Cone Penetrometer
Serial Number: 1204
Cone: 10 Feet Cone
Cone Area: 0.0000 m²
Cone Angle: 0.0000 °
Cone Diameter: 0.0000 m
Cone Factor: 0.0000
Cone Constant: 0.0000
Cone Offset: 0.0000 m
Cone Correction: Cone Factor - Not Filled
Cone Correction: Cone Constant - Not Filled
Cone Correction: Cone Offset - Not Filled
Cone Correction: Cone Area - Not Filled
Cone Correction: Cone Angle - Not Filled
Cone Correction: Cone Diameter - Not Filled

Start: 2011-12-31 00:00:00 GMT+00:00
Stop: 2012-01-01 00:00:00 GMT+00:00
Interval: 00:00:01
Duration: 00:00:00
Samples: 0

Statistics

	Min	Max	Avg	Sdev	Var
Penetration	nan	nan	nan	nan	nan
Resistance	nan	nan	nan	nan	nan

Notes

Time	Text
2011-12-31 00:00:00 GMT+00:00	Avalanches 10-Feet Cone S1204

Penetration

Time	Penetration
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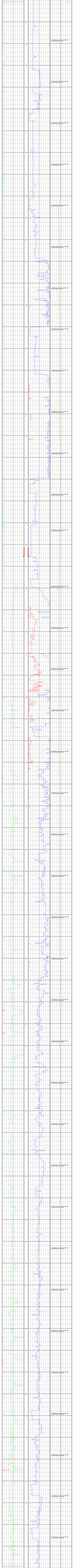
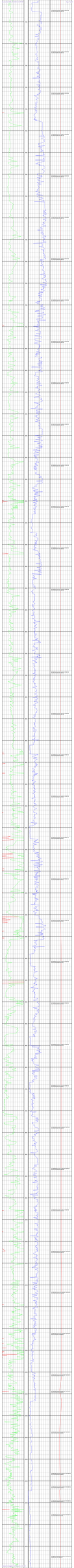
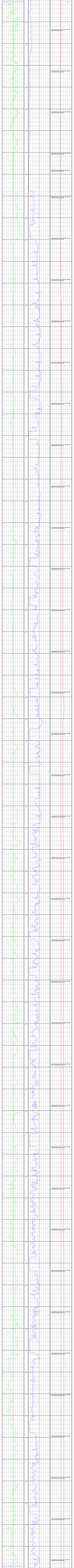
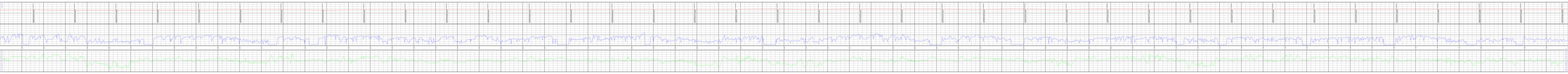
Resistance

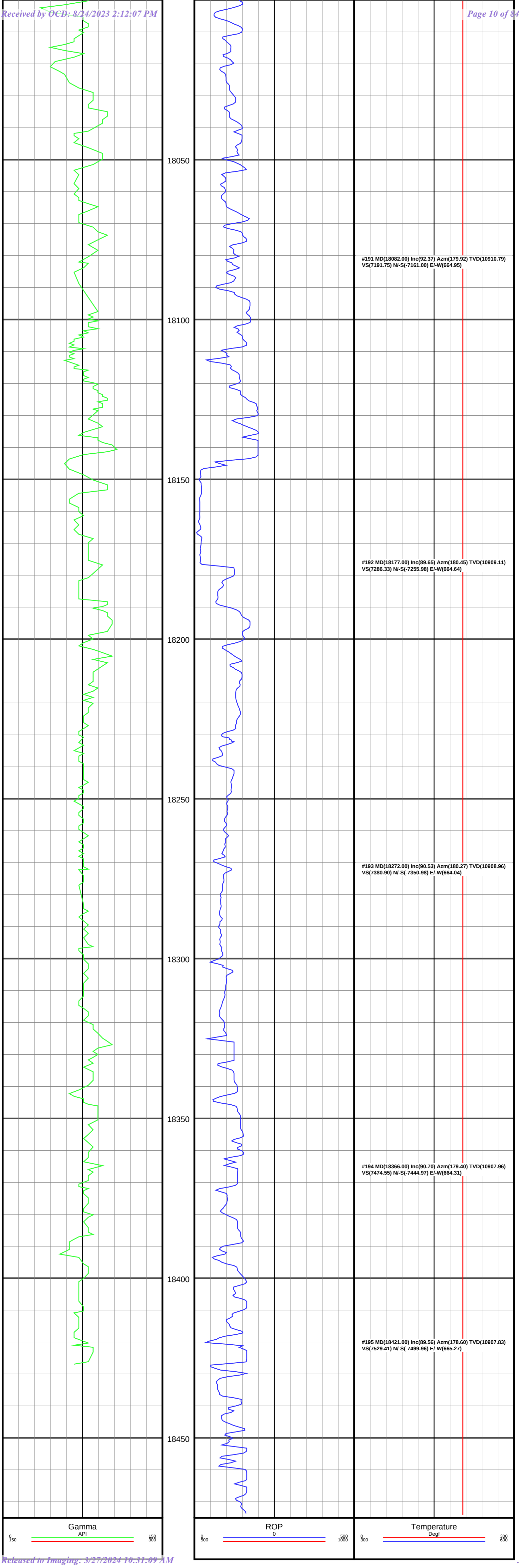
Time	Resistance
2011-12-31 00:00:00 GMT+00:00	nan







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VS(7286.33) N/-S(-7255.98) E/-W(664.64)
#193 MD(18272.00) Inc(90.53) Azm(180.27) TVD(10908.96)
VS(7380.90) N/-S(-7350.98) E/-W(664.04)
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#195 MD(18421.00) Inc(89.56) Azm(178.60) TVD(10907.83)
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Gamma
API
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150
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ROP
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Page 11 of 84

Received by OCD: 8/24/2022 8:17:17 PM

PATRIOT WELL SOLUTIONS

RADIAL CEMENT BOND GAMMA RAY CASING COLLAR LOG

Company Eog Resources
Well Audacious 19 Fed Com 510H
Field Bone Spring
County Lea
State New Mexico

Company Eog Resources
Well Audacious 19 Fed Com 510H
Field Bone Spring
County Lea State New Mexico

Location: API # : 30-025-4899100

SEC TWP RGE

Other Services: N/A

Permanent Datum Ground Level Elevation 3435'
Log Measured From Kelly Bushing 25' Above PD
Drilling Measured From Kelly Bushing

Elevation
K.B. 3460'
D.F. 3458'
G.L. 3435'

Date	20-Oct_2021		
Run Number	ONE		
Depth Driller	18459'		
Depth Logger	11005'		
Bottom Logged Interval	11000'		
Top Log Interval	Surface		
Open Hole Size	N/A		
Type Fluid	Fresh Water		
Density / Viscosity	N/A		
Max. Recorded Temp.	162 DegF		
Estimated Cement Top	3295'		
Time Well Ready	9:00		
Time Logger on Bottom	9:45		
Equipment Number	L34		
Location	Midland, TX		
Recorded By	Howard Spencer	Caleb Dill	
Witnessed By	Wade Gary		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/8"	54.5	Surface	1085'
Prod. String	9 5/8"	40	Surface	4863'
Production String	5 1/2"	20	Surface	18459'
Liner				
Marker Joint	5 1/2"	20	10313'	10335'

<<< Fold Here >>>

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

Log Correlated To Marker Joint 10313' To 10335'
Radial Bond Log Depth Shift -14' Correction
Thank You For Choosing Patriot Well Solutions

Main Pass

Logged With 0 PSI

PATRIOT WELL SOLUTIONS

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Database File	eog audacious 19 fed com 510h.db
Dataset Pathname	510H/Main_Pass/pass2
Presentation Format	1patriot_radii_8sec_dccl
Dataset Creation	Wed Oct 20 13:42:53 2021
Charted by	Depth in Feet scaled 1:240

400	TT (usec)	200	GCT_TEMP (degF) 100 200	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	Cement Map 8
0	GR (GAPI)	150		0	AMPx10 (mV)	20	0	AMPS2	150					
0	MINMK	10					0	AMPS3	150					
9	CCL$2	-1	LTEN 0 (lb 1500				0	AMPS4	150					
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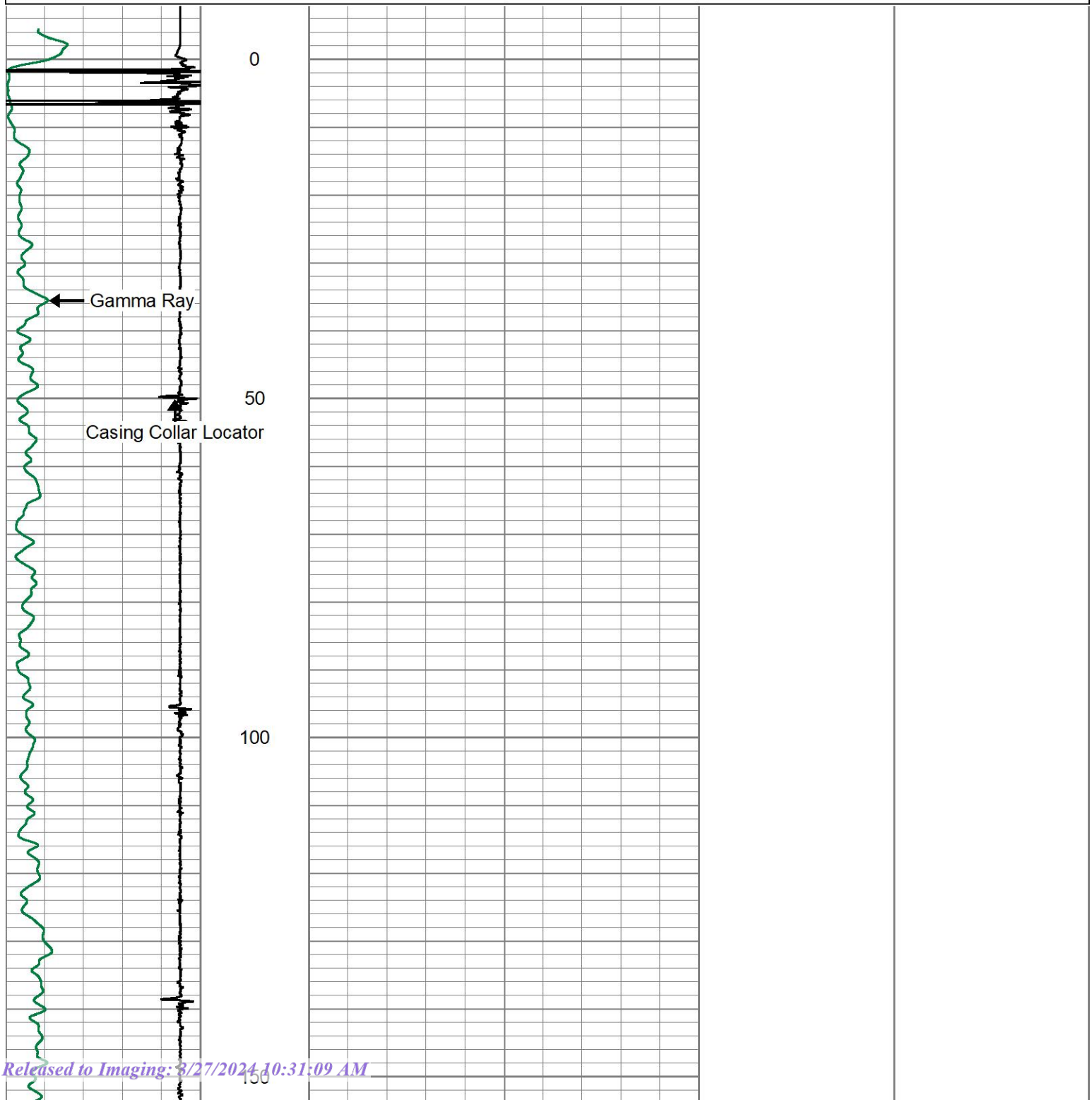

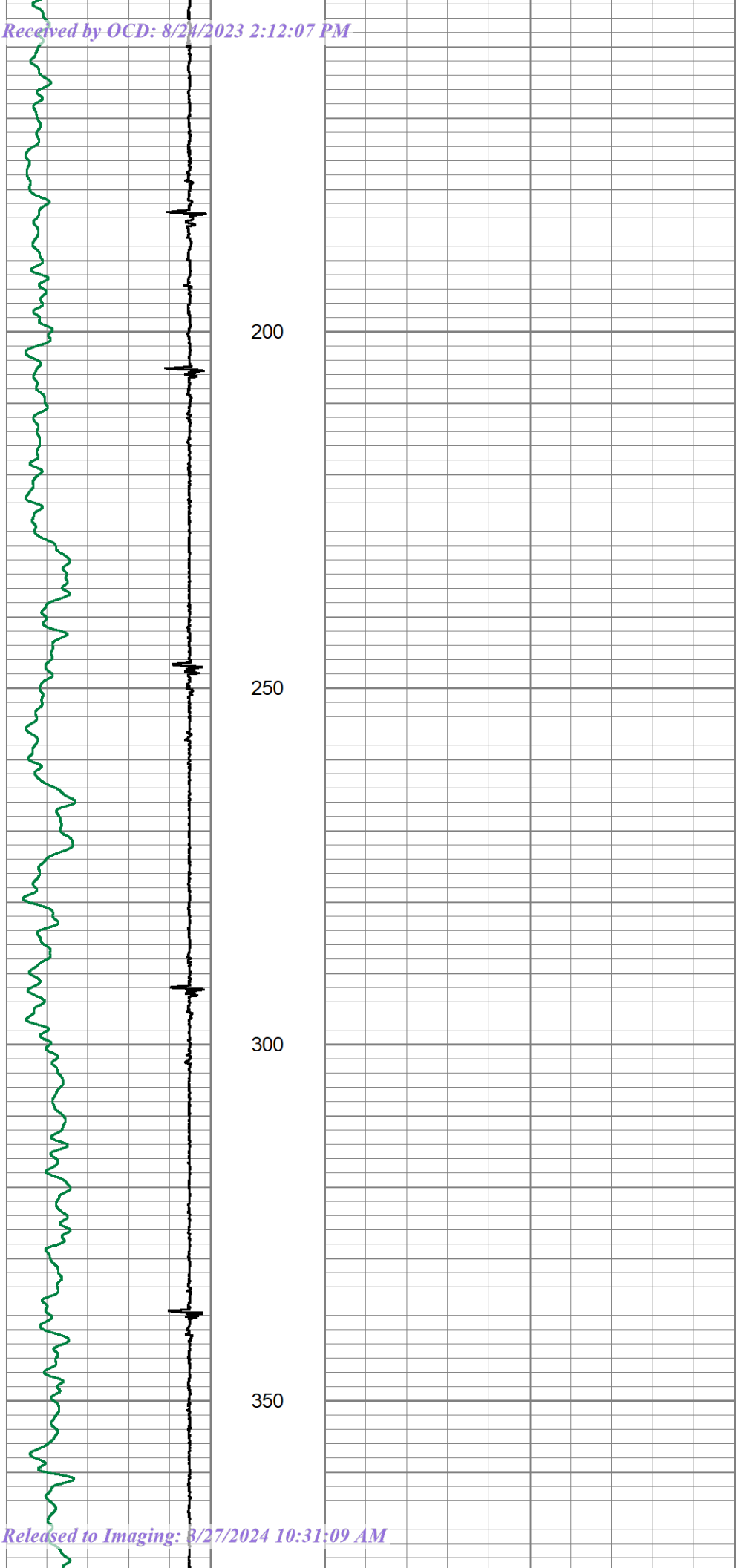
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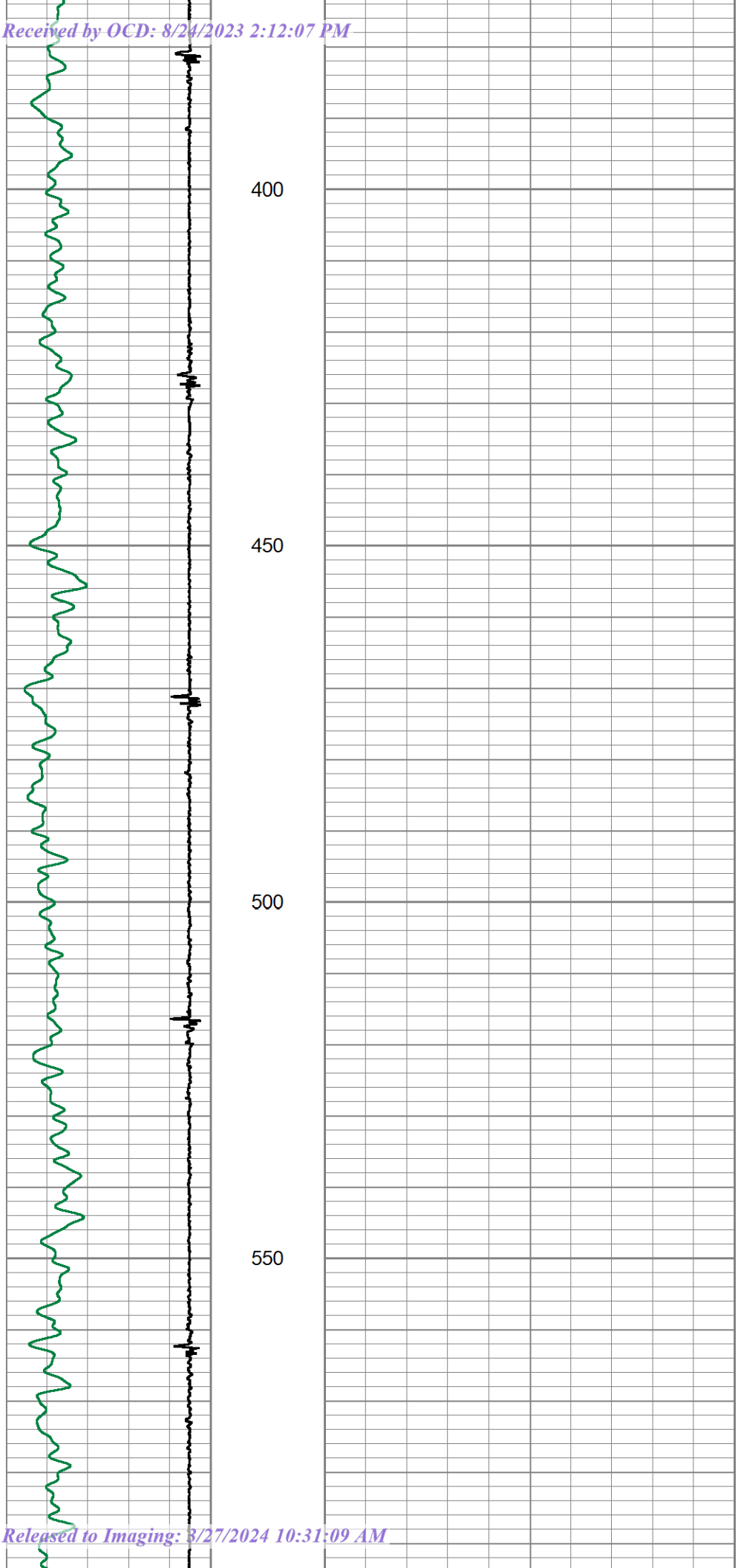
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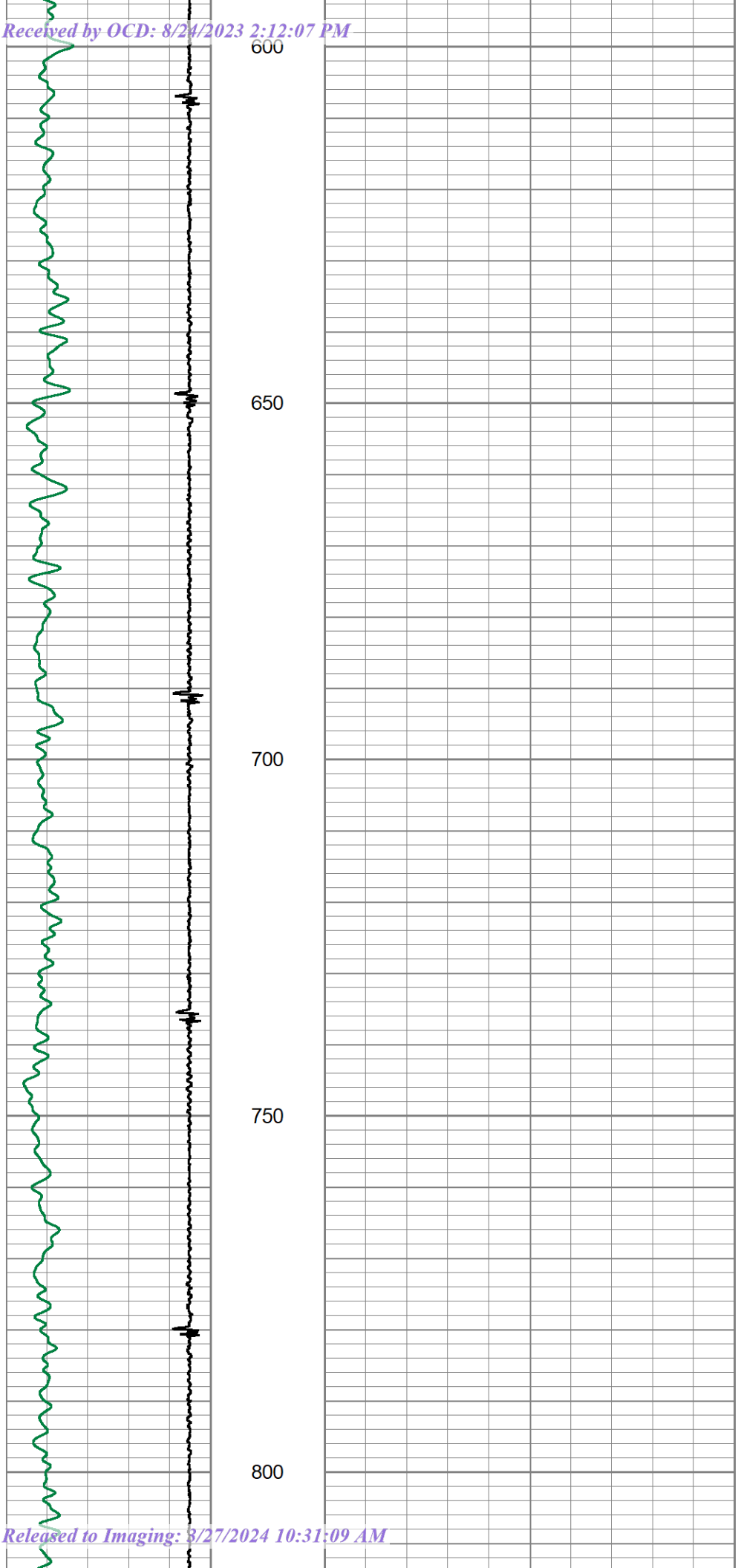
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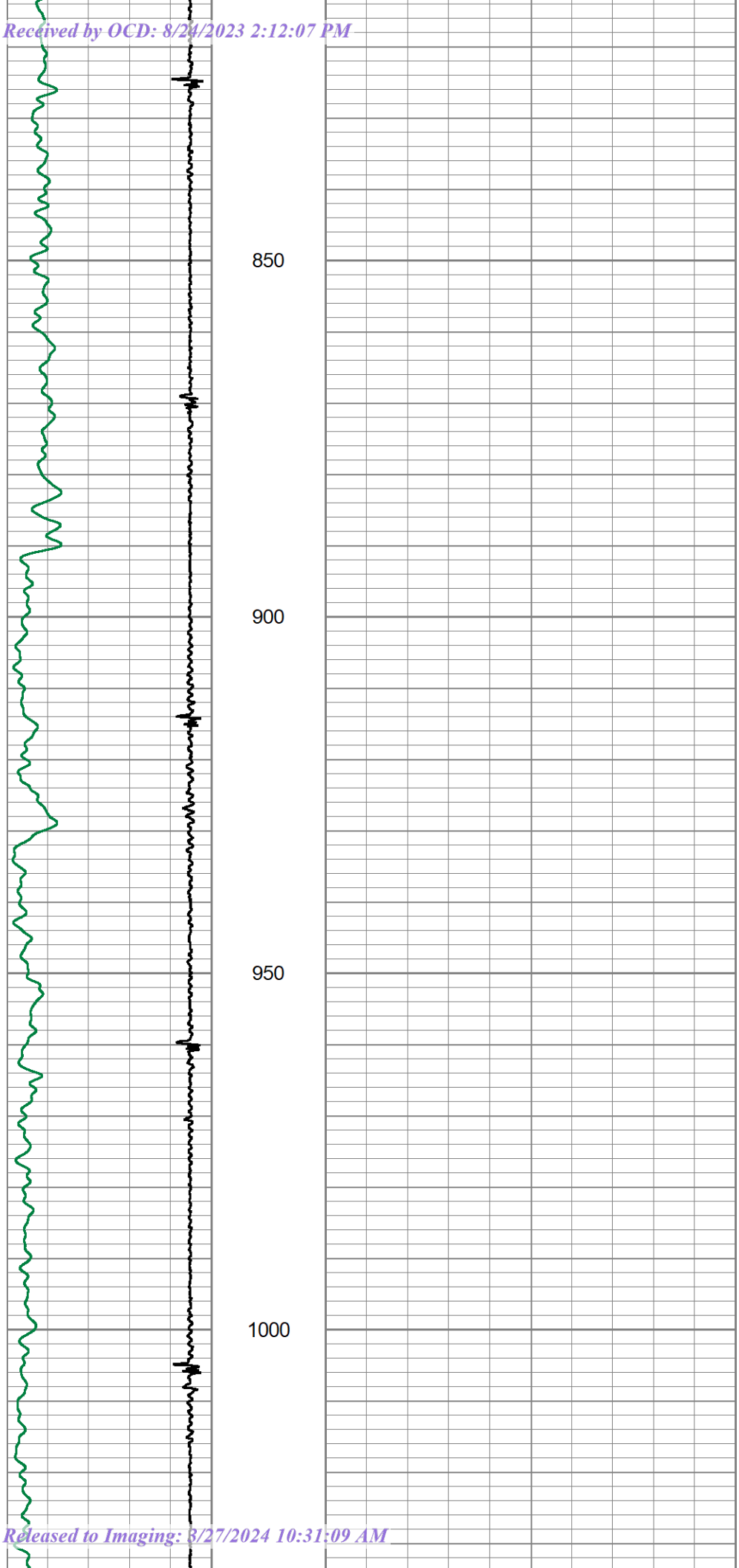
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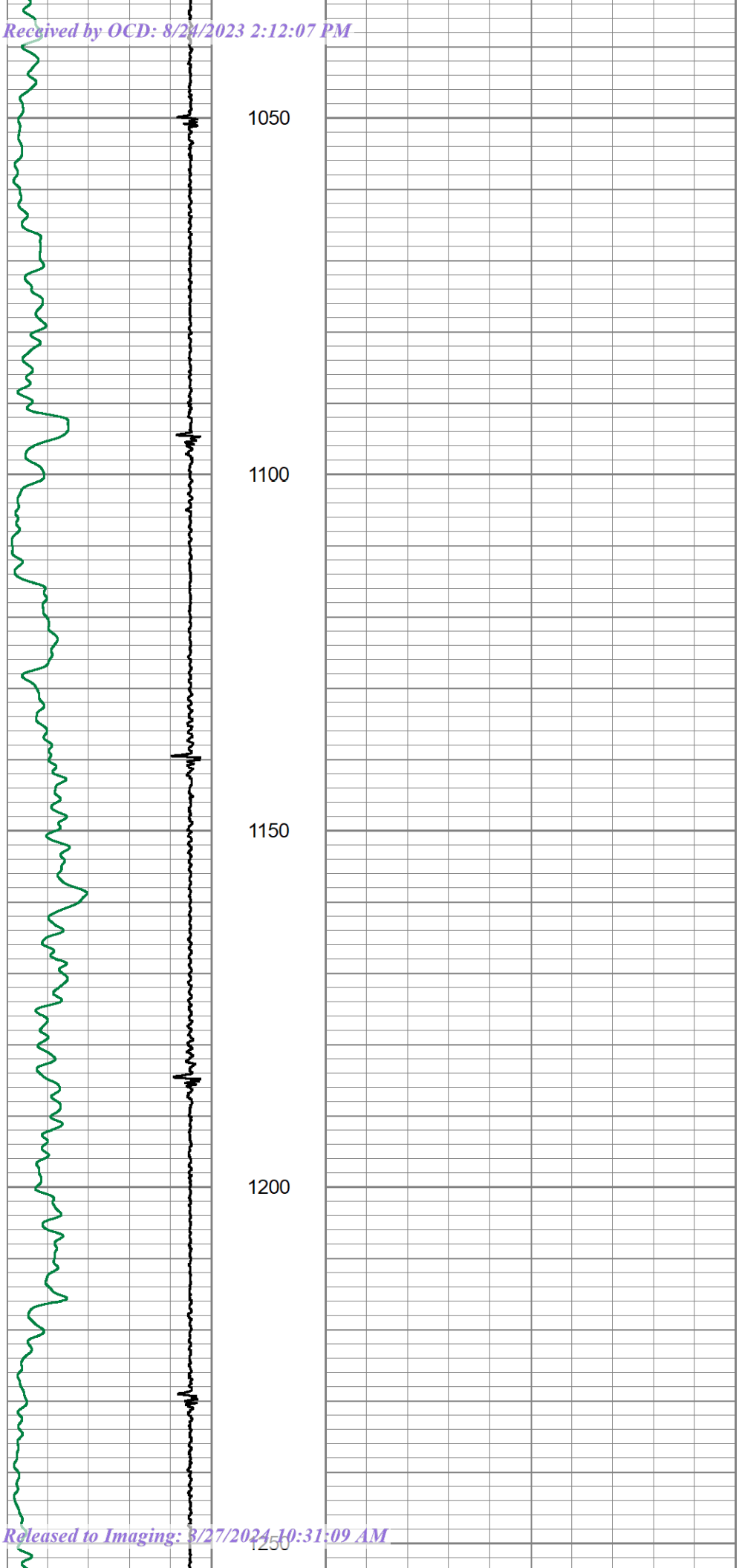
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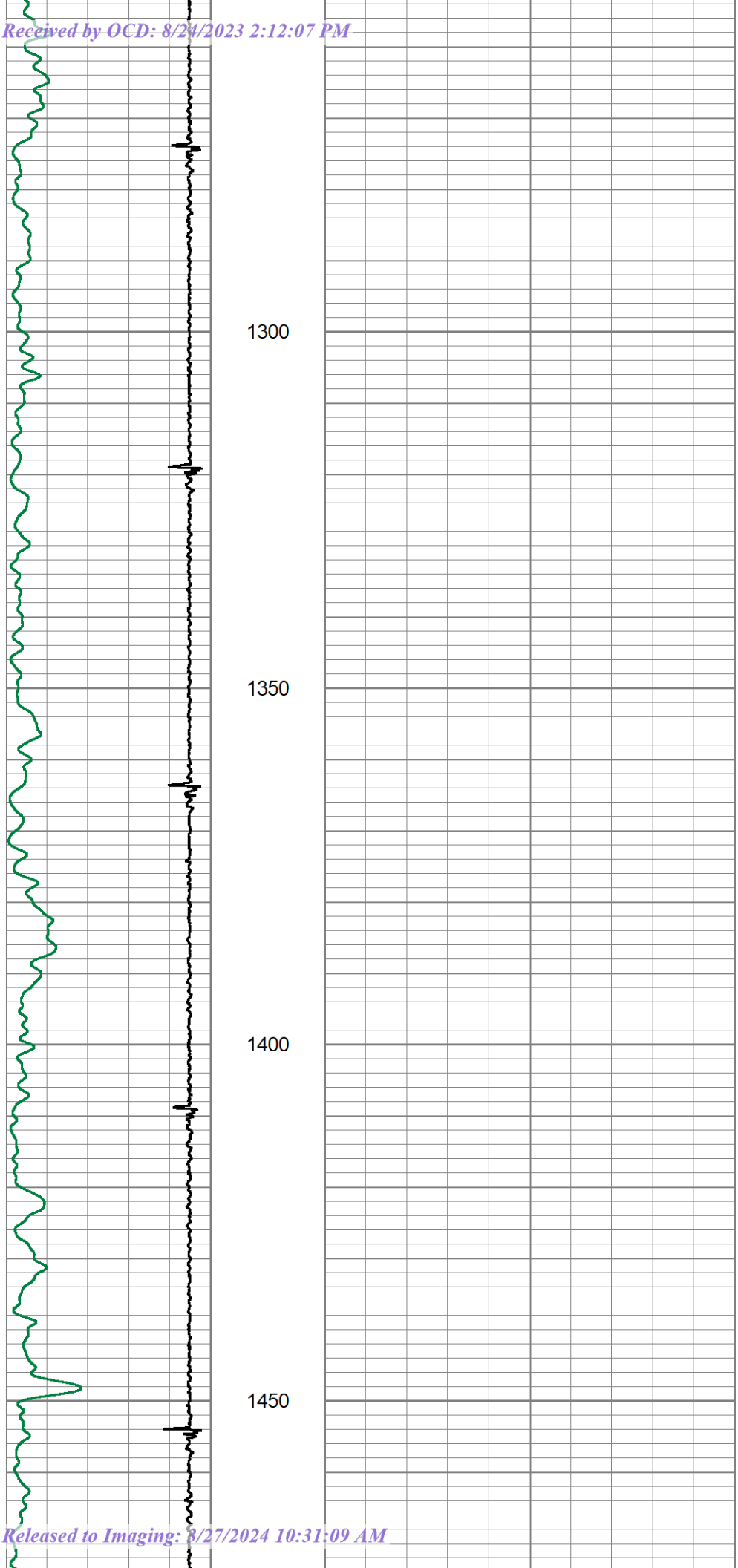
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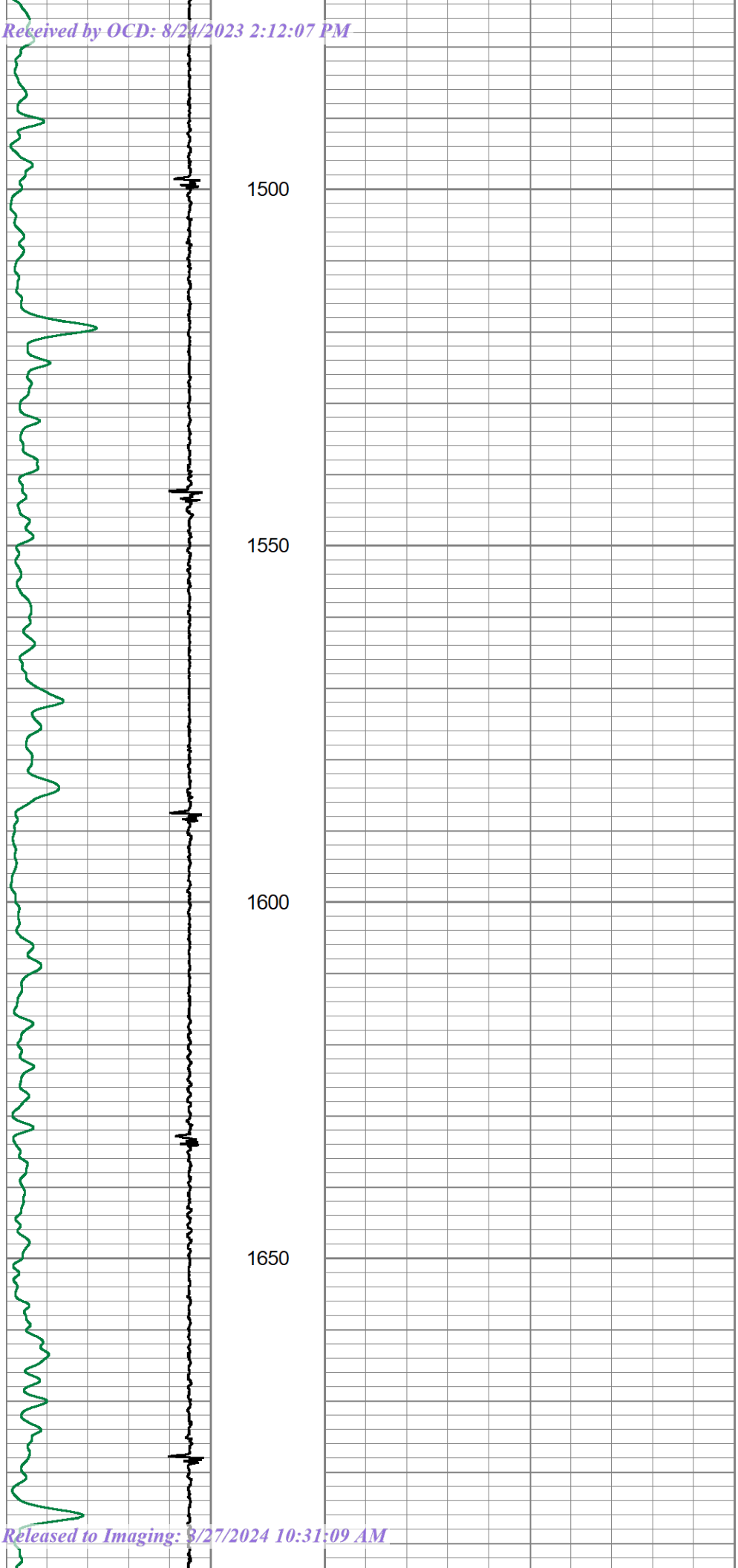
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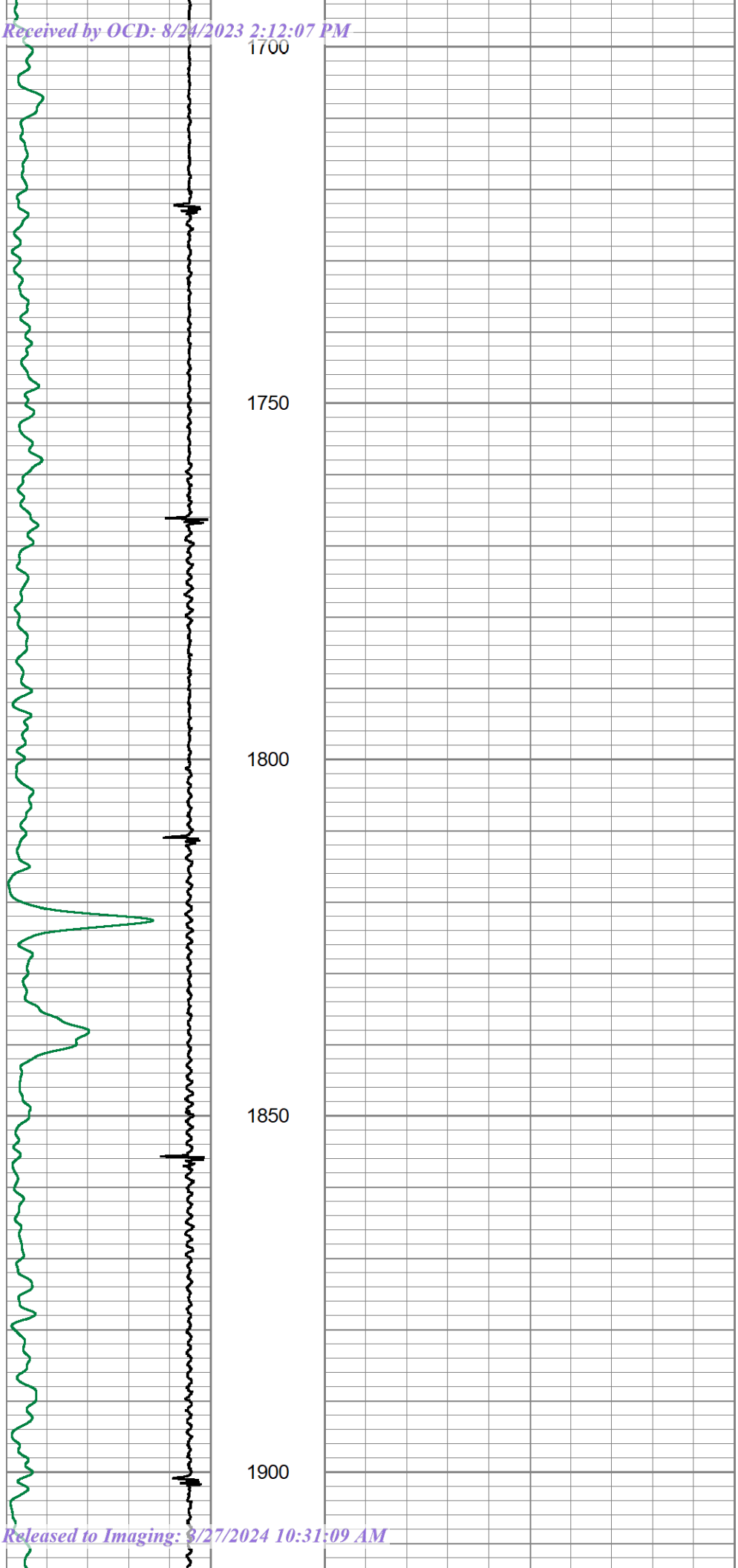
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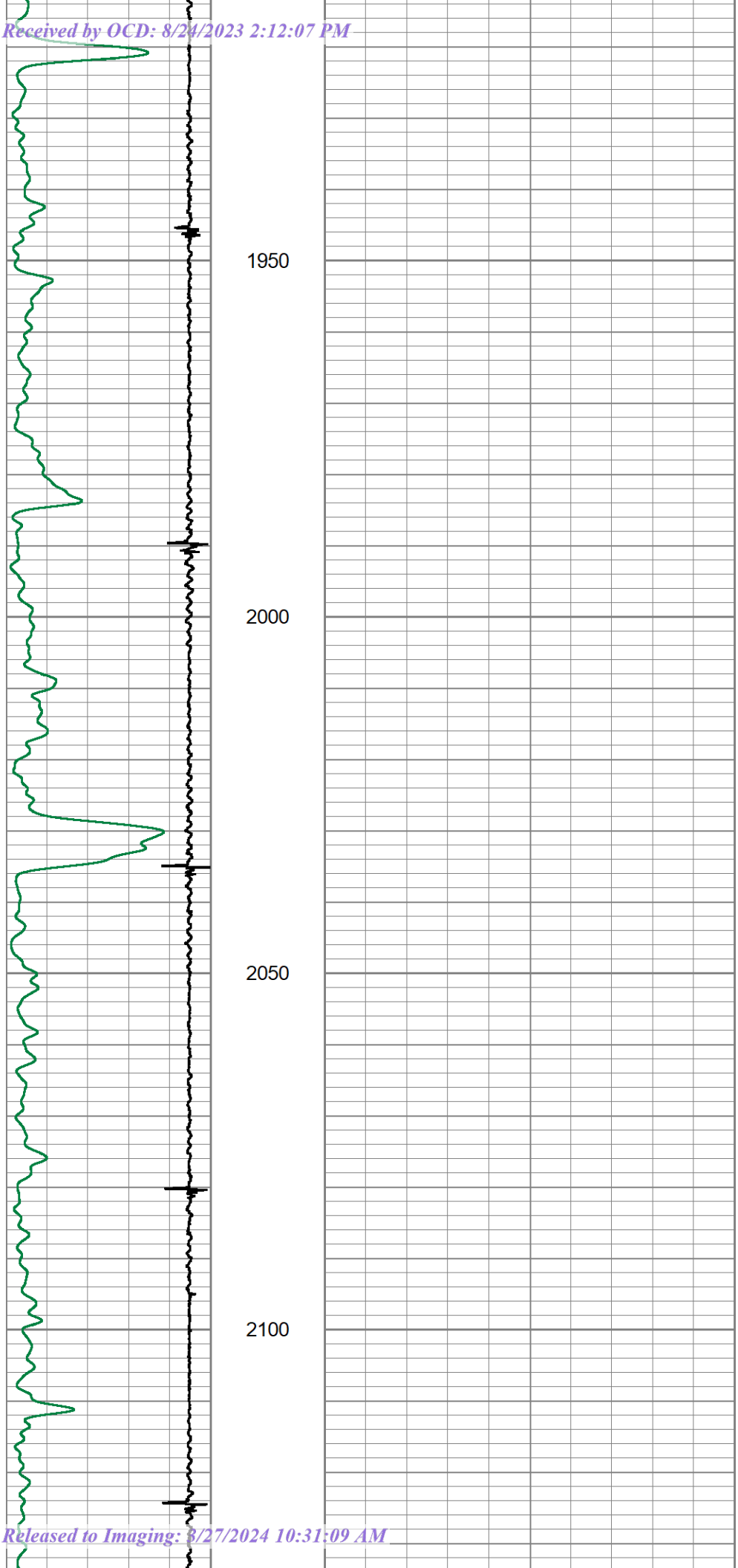
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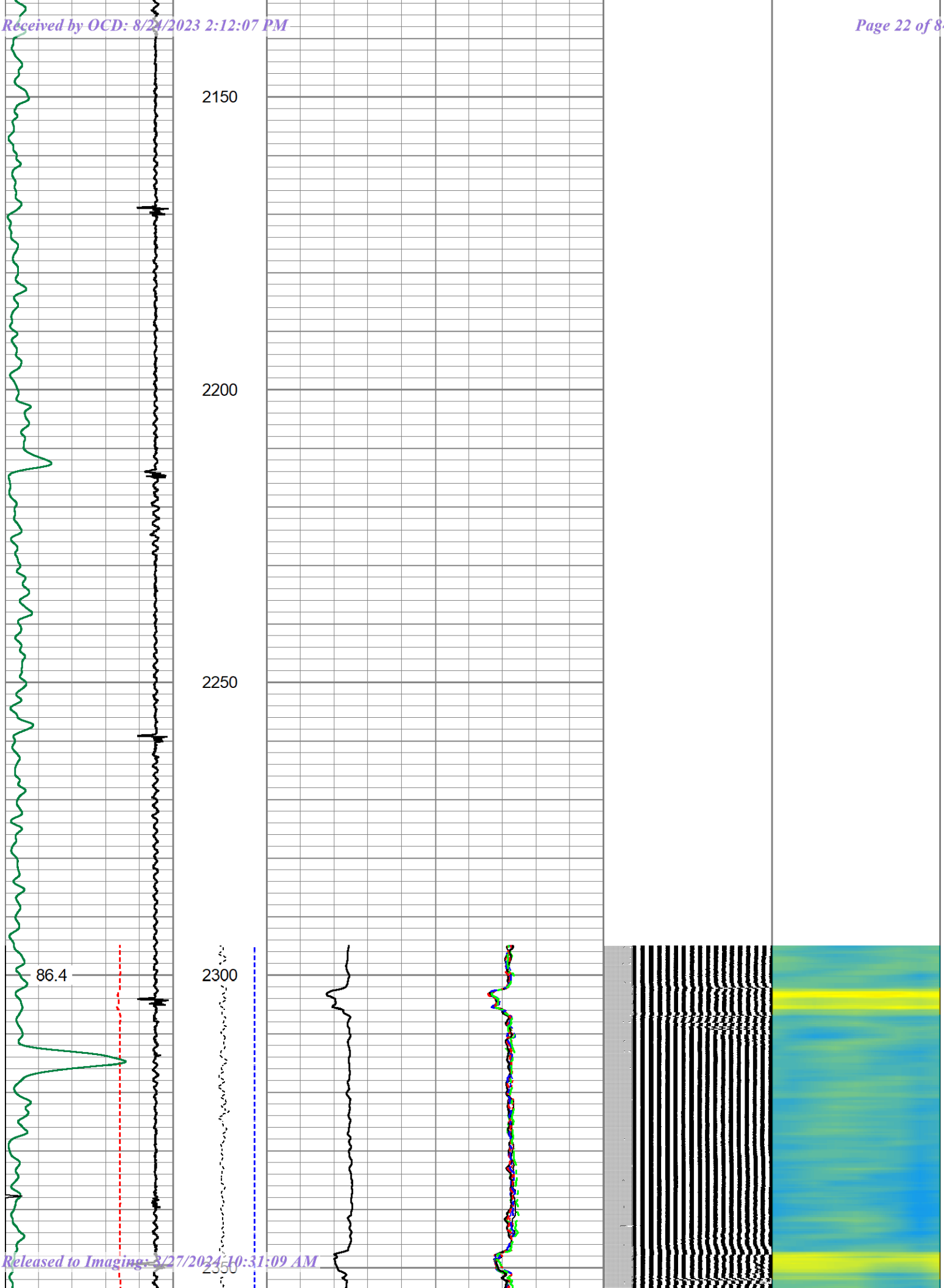
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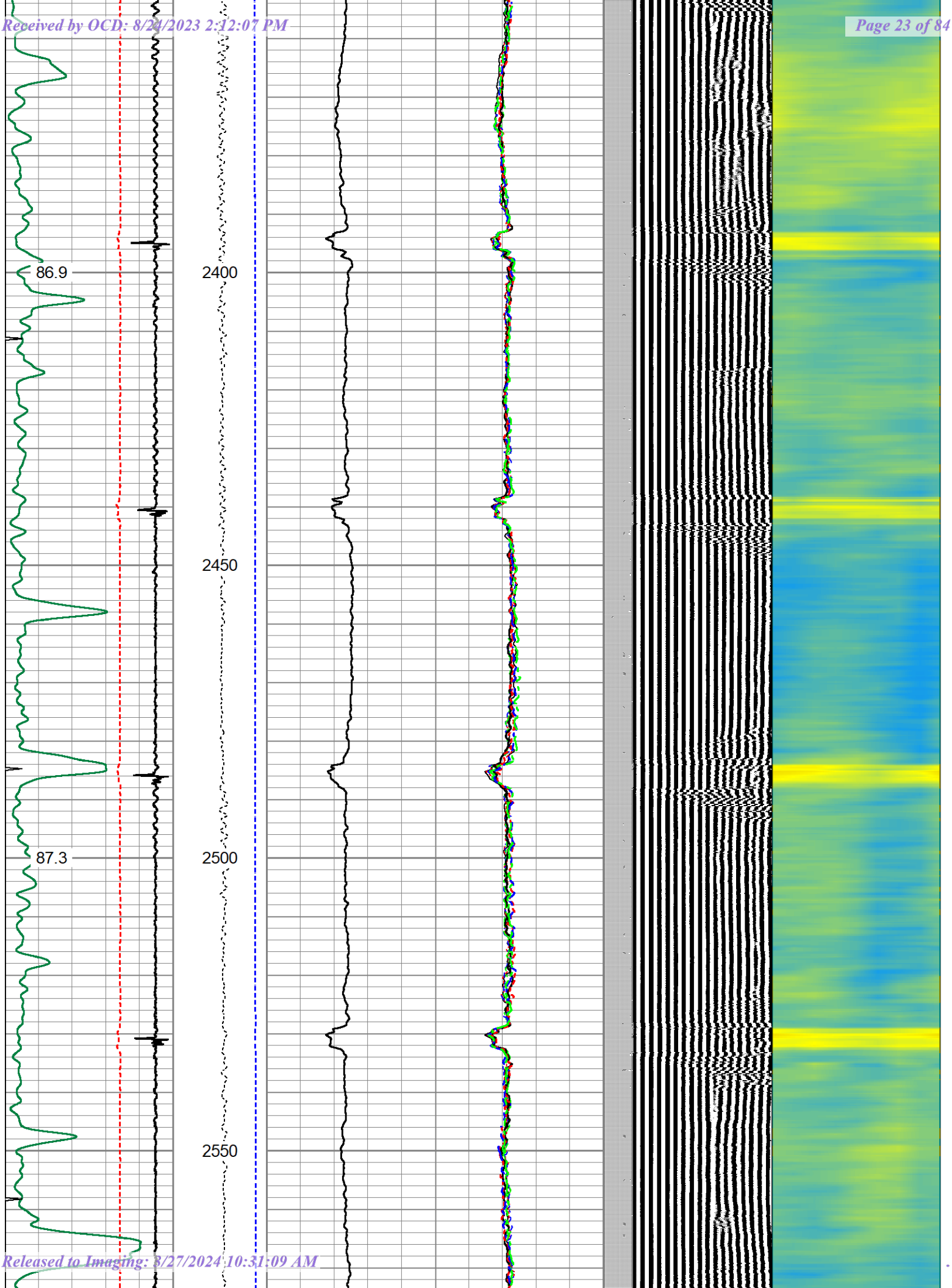
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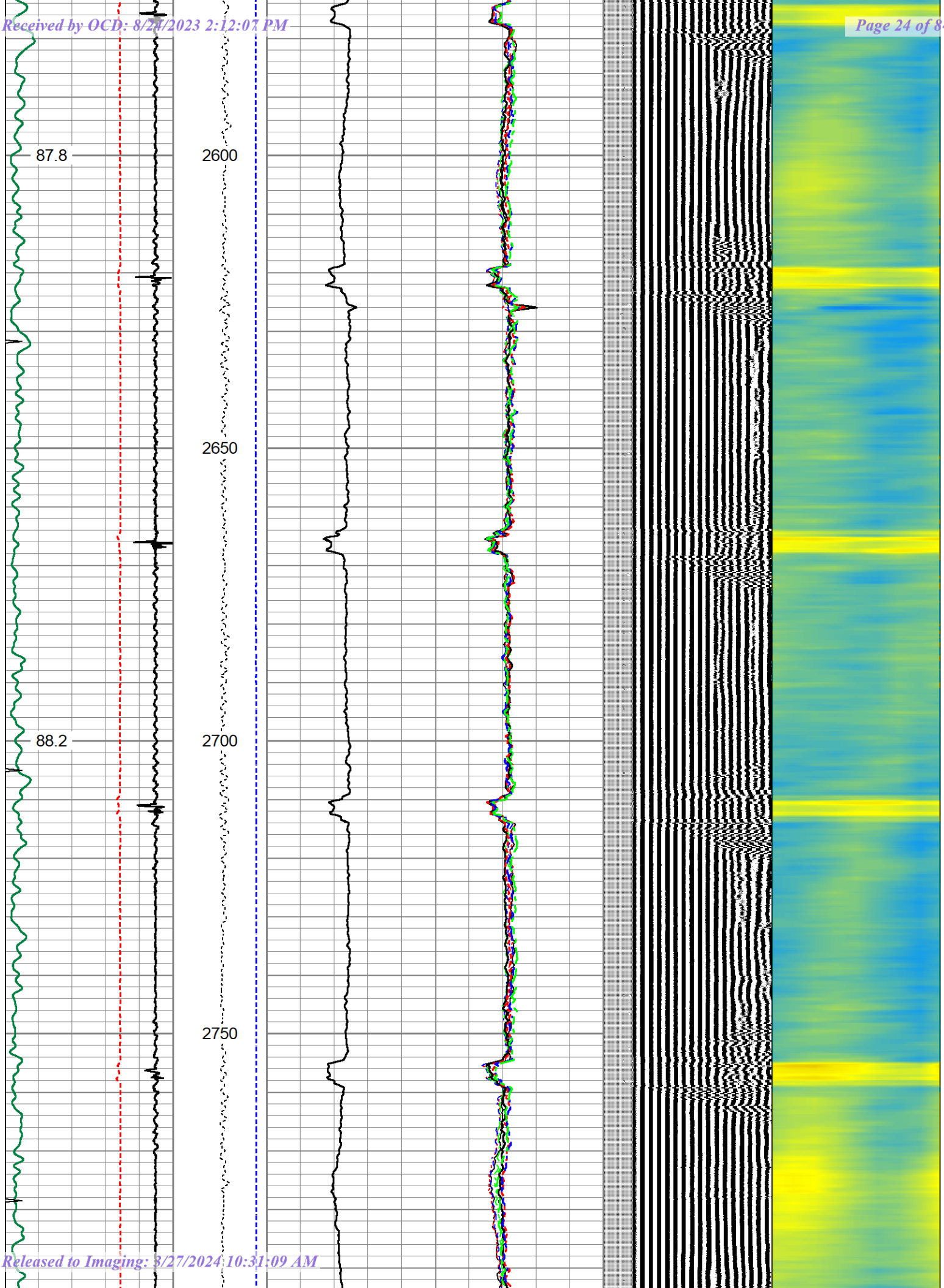
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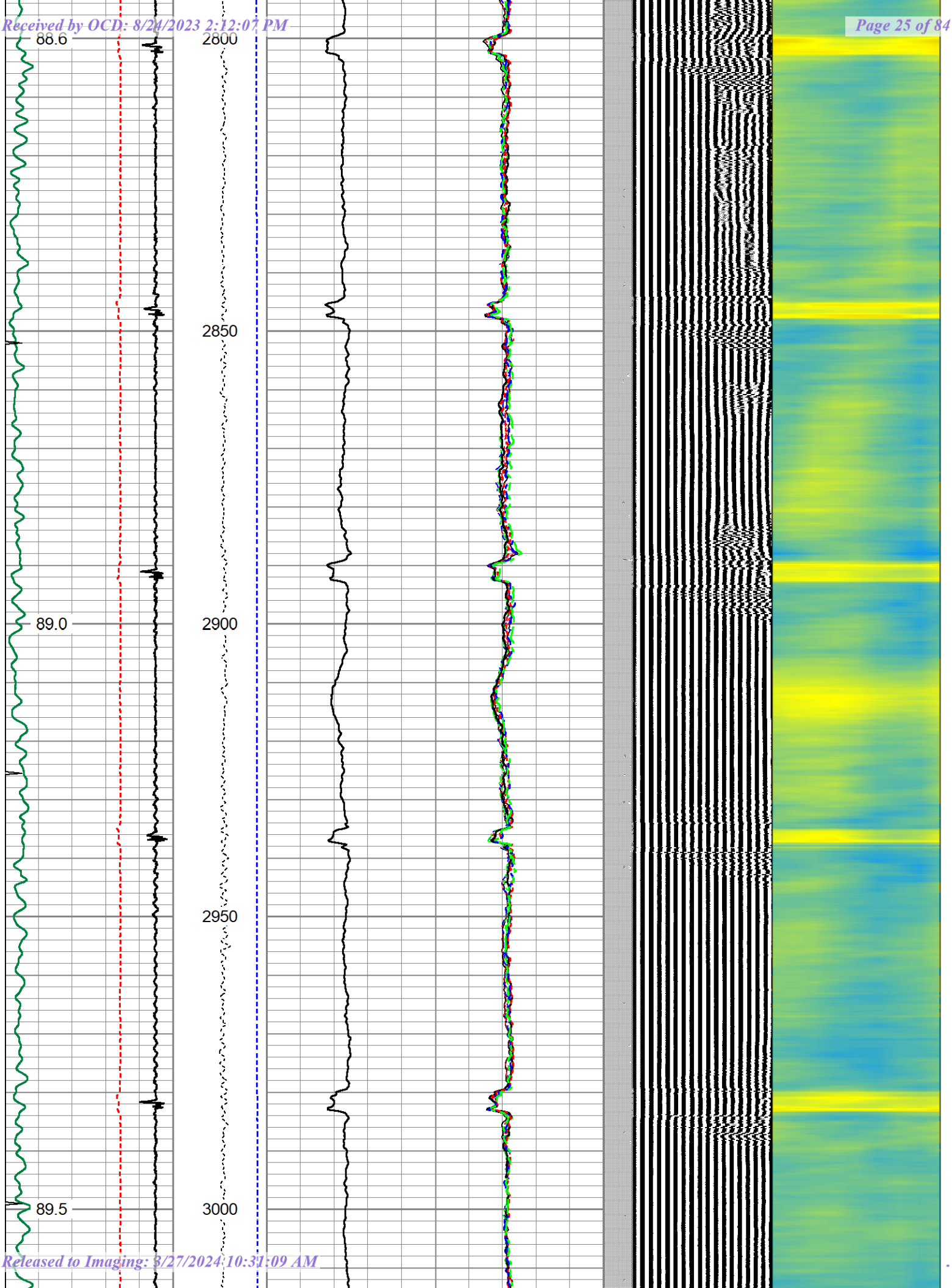

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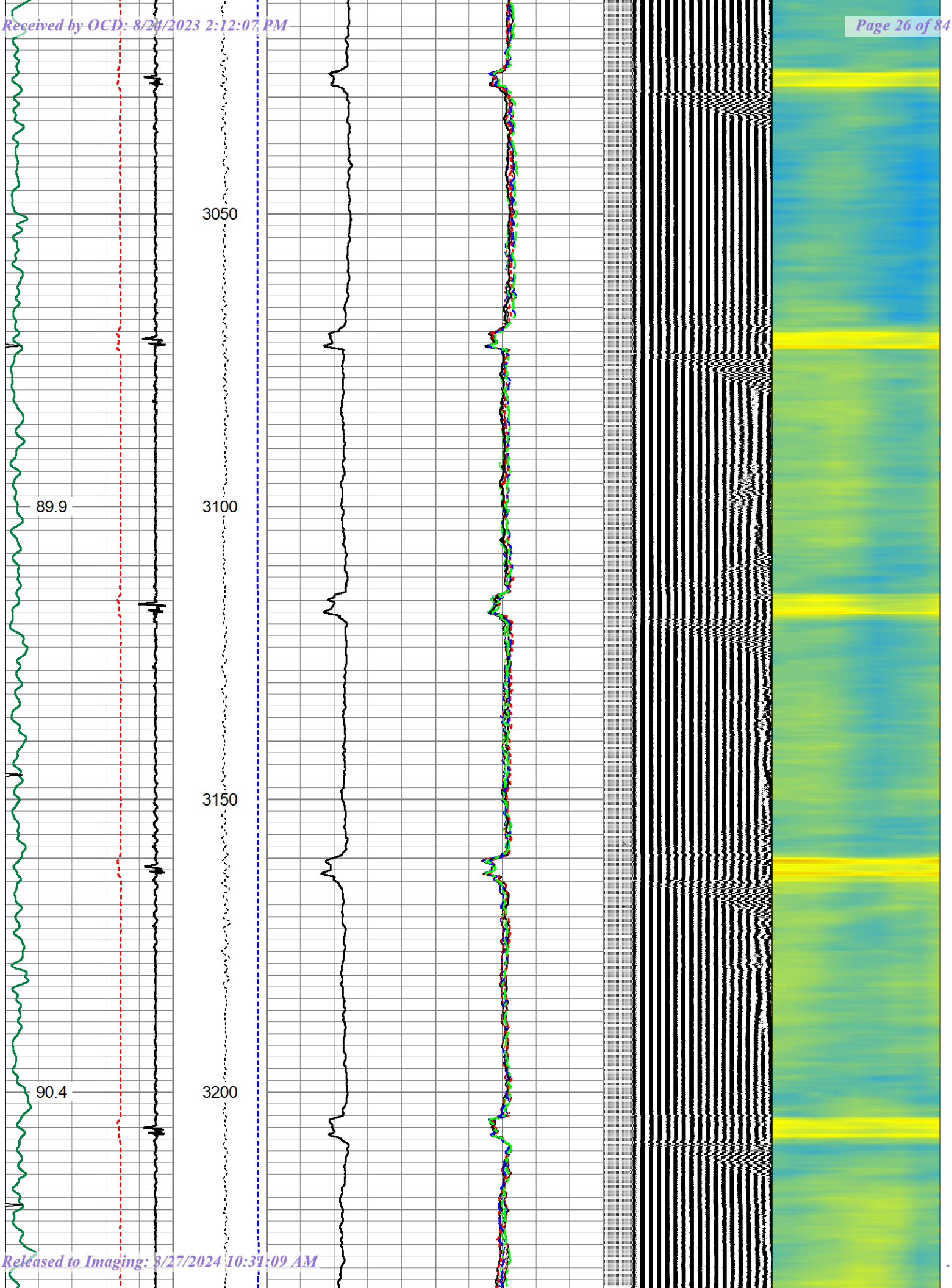
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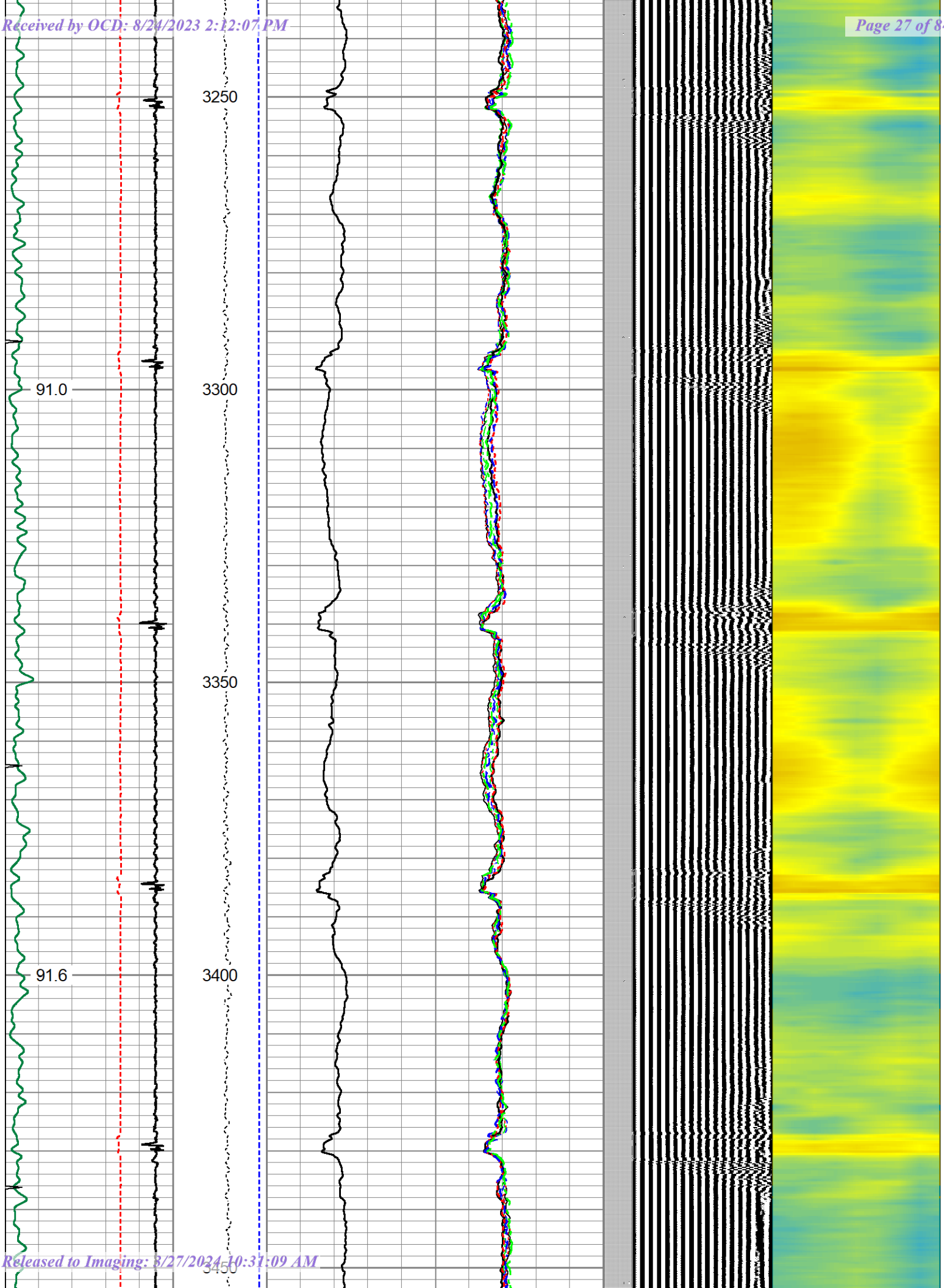
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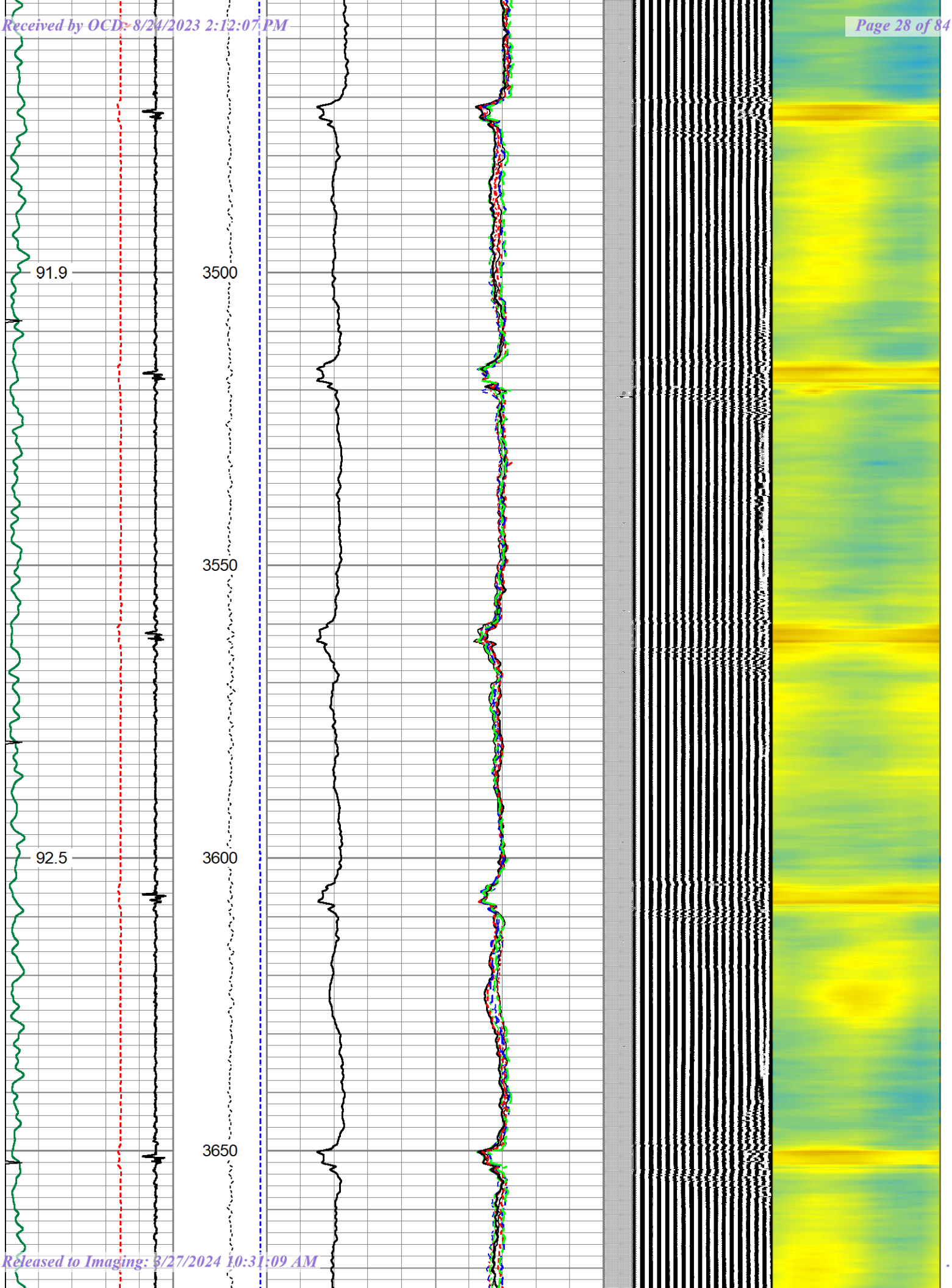
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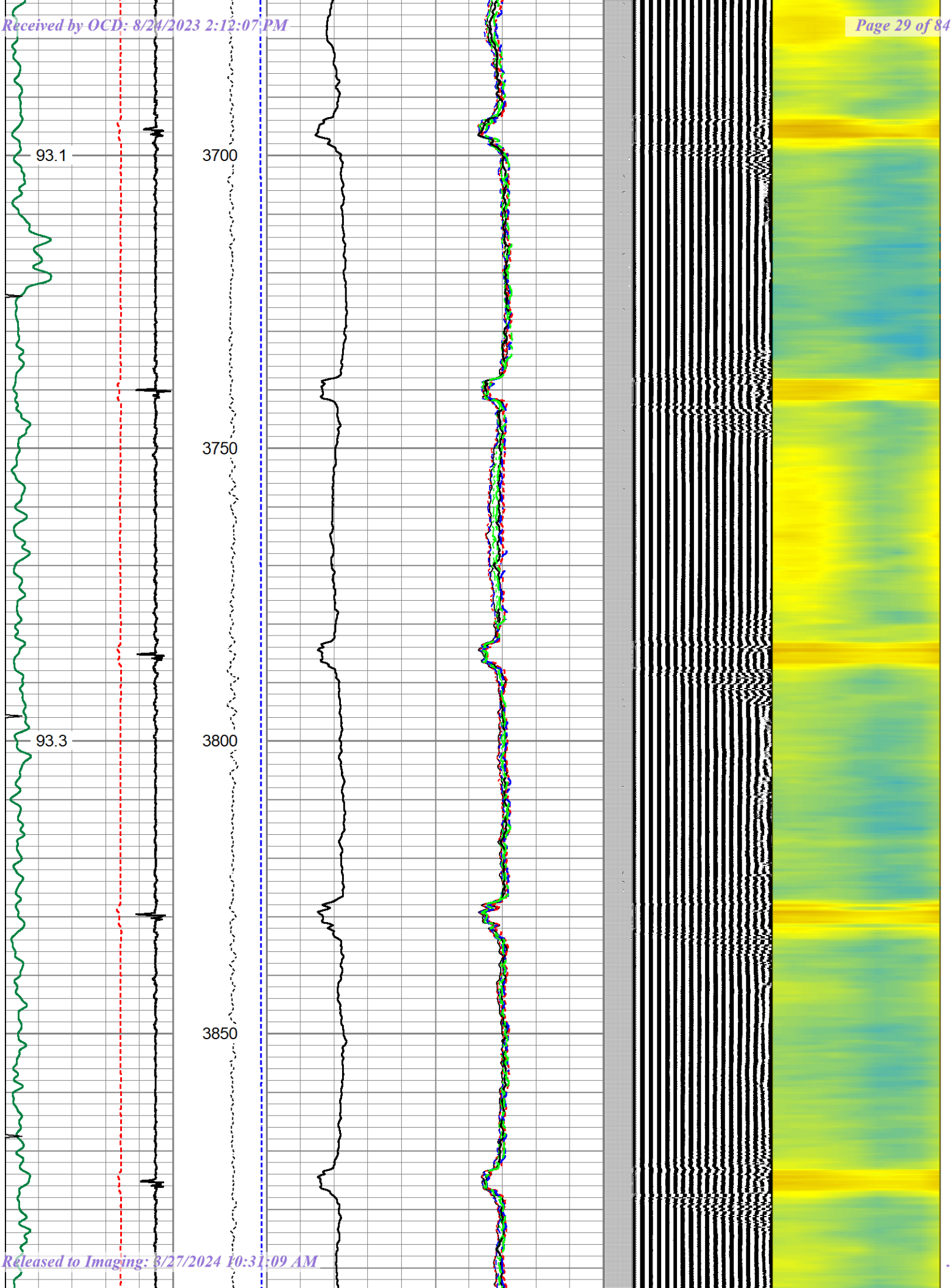
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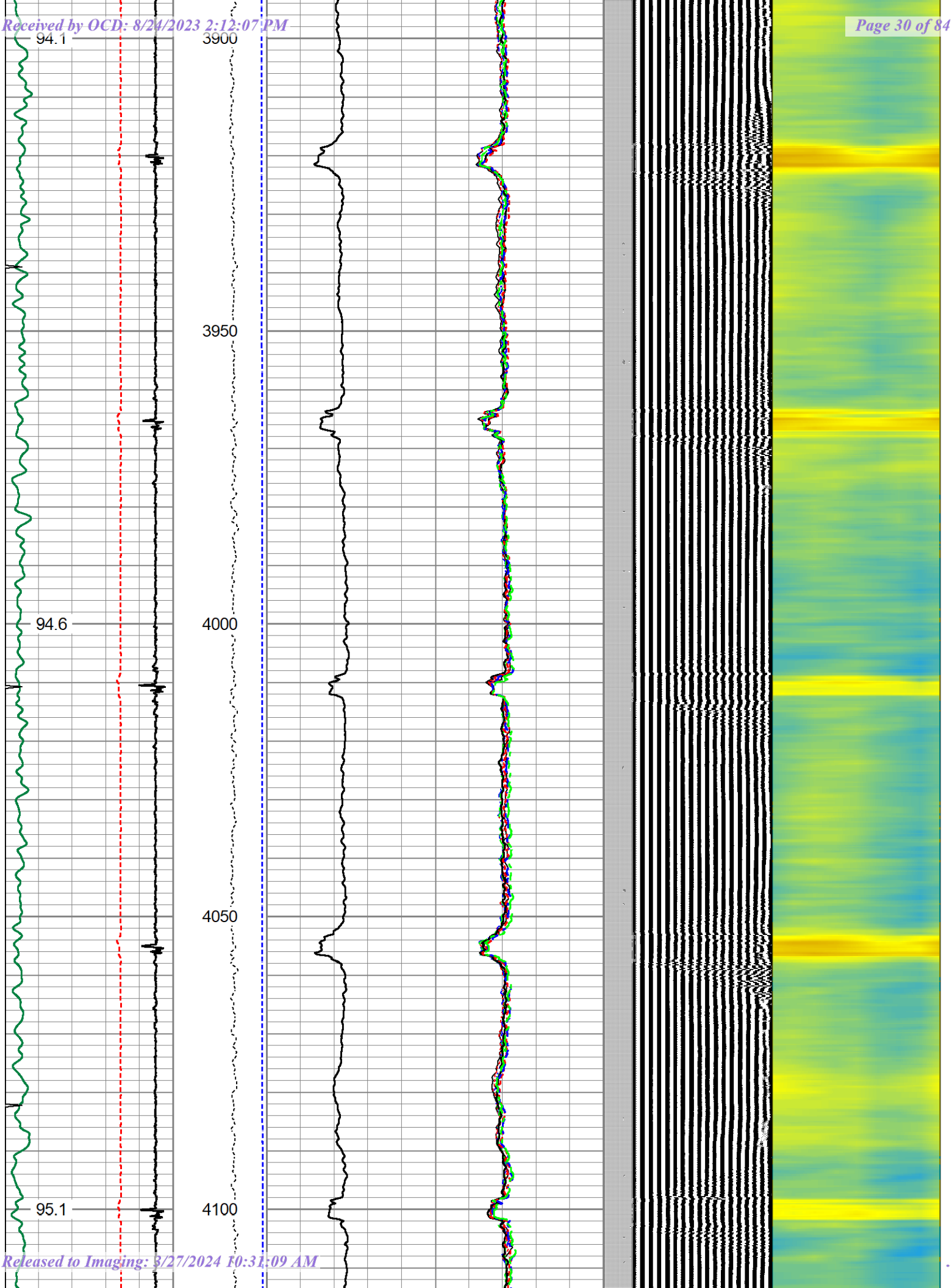
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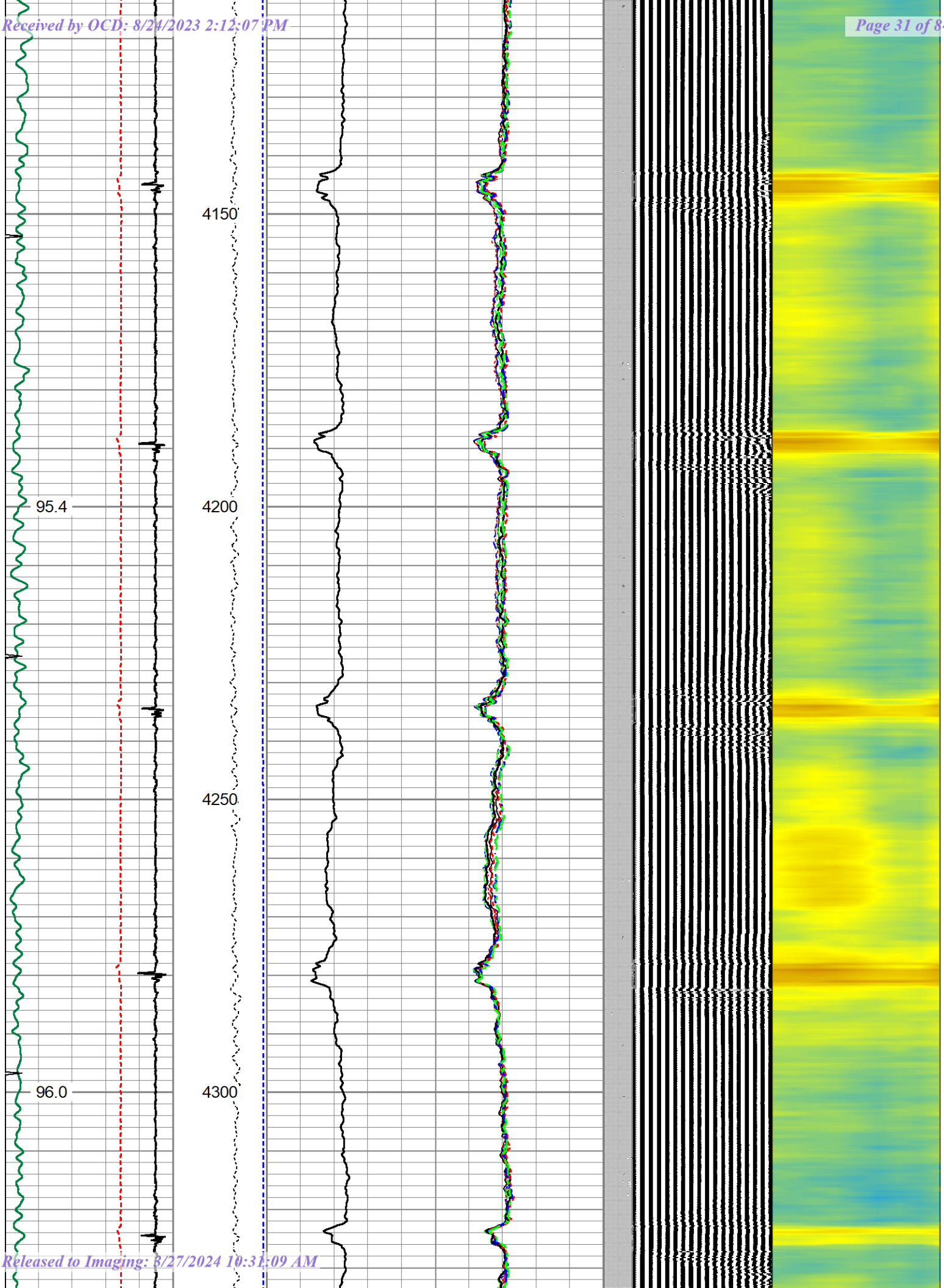
94.6
4000
4050
95.1
4100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4250
96.0
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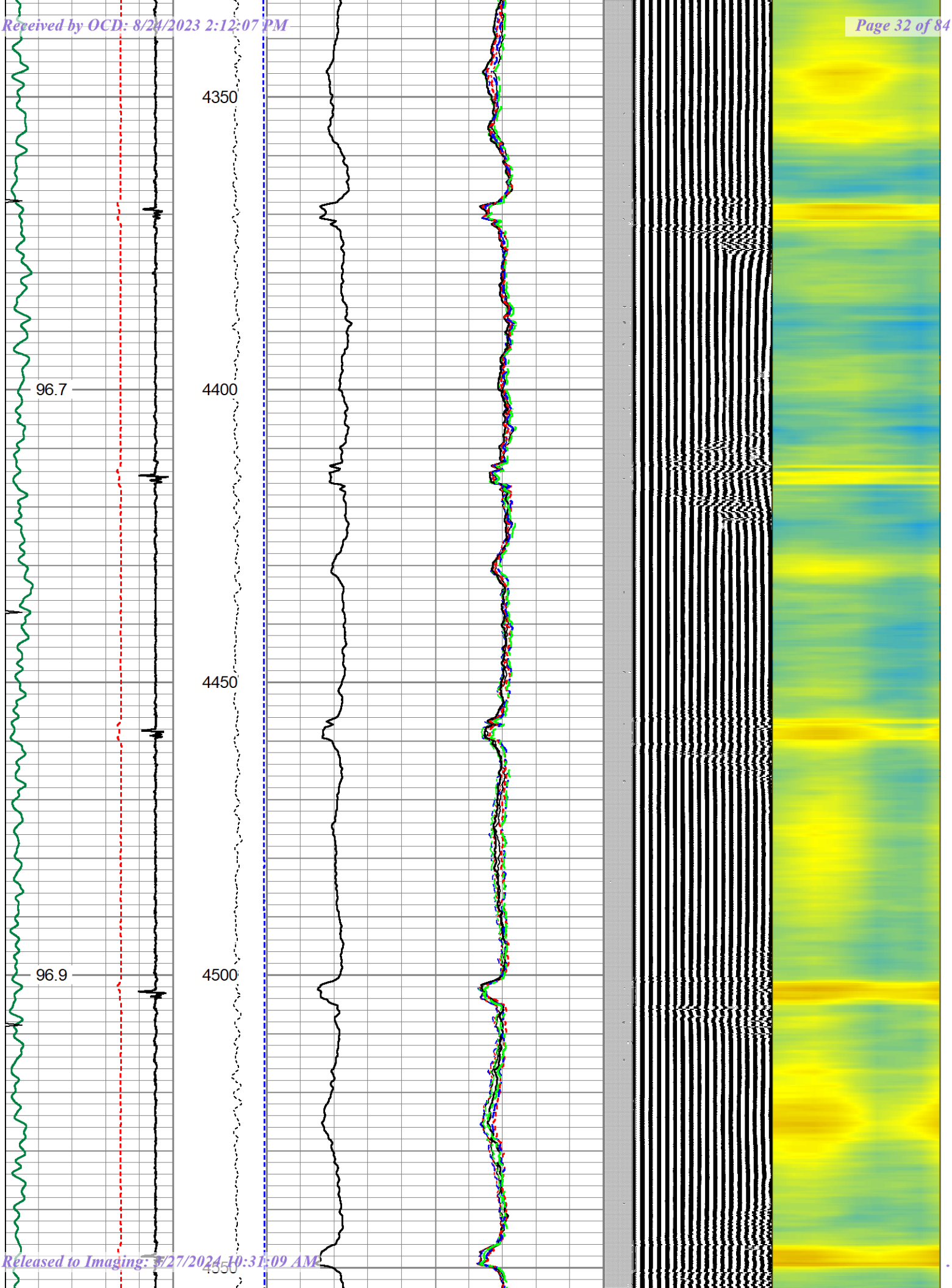
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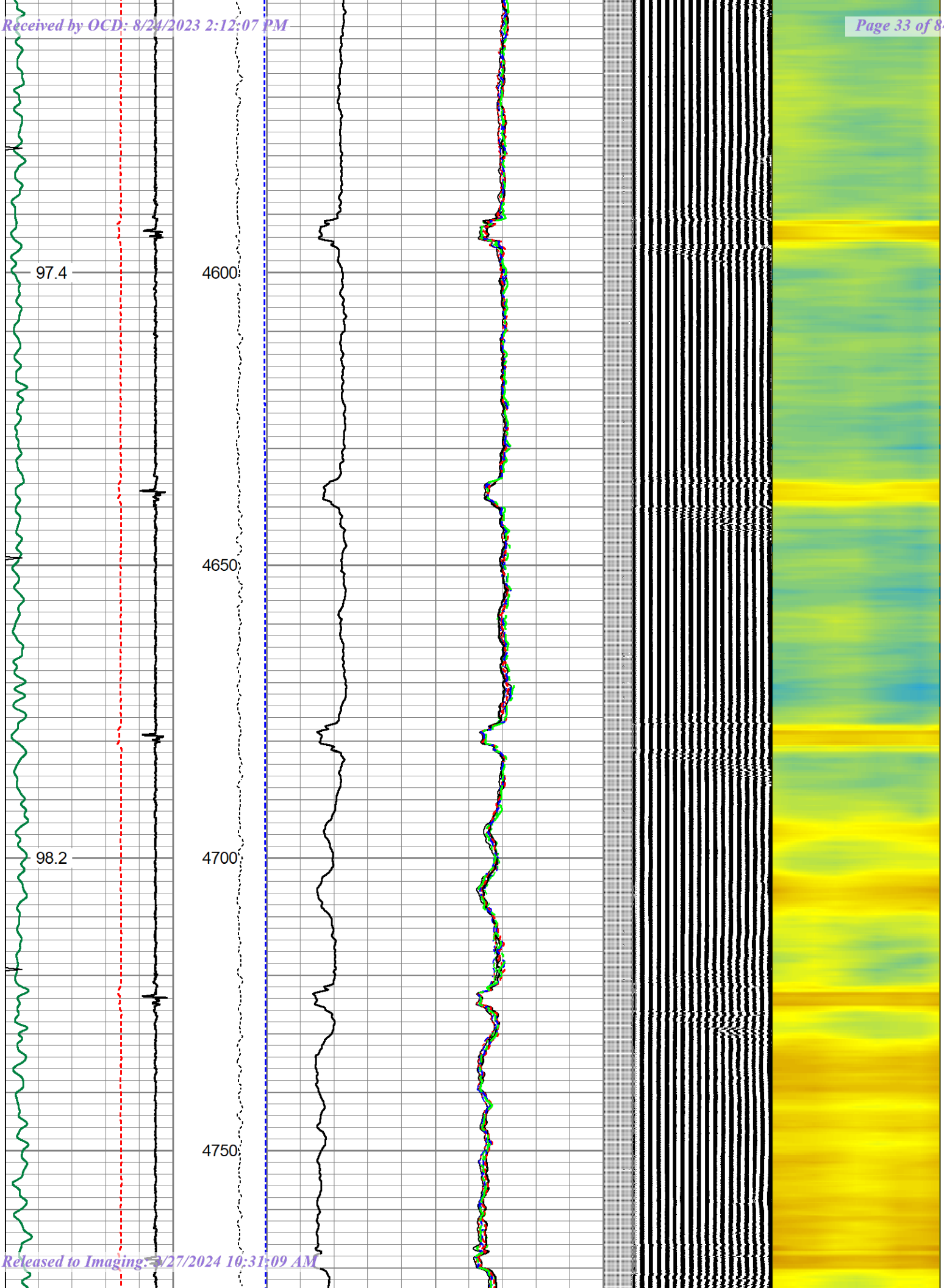
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4600
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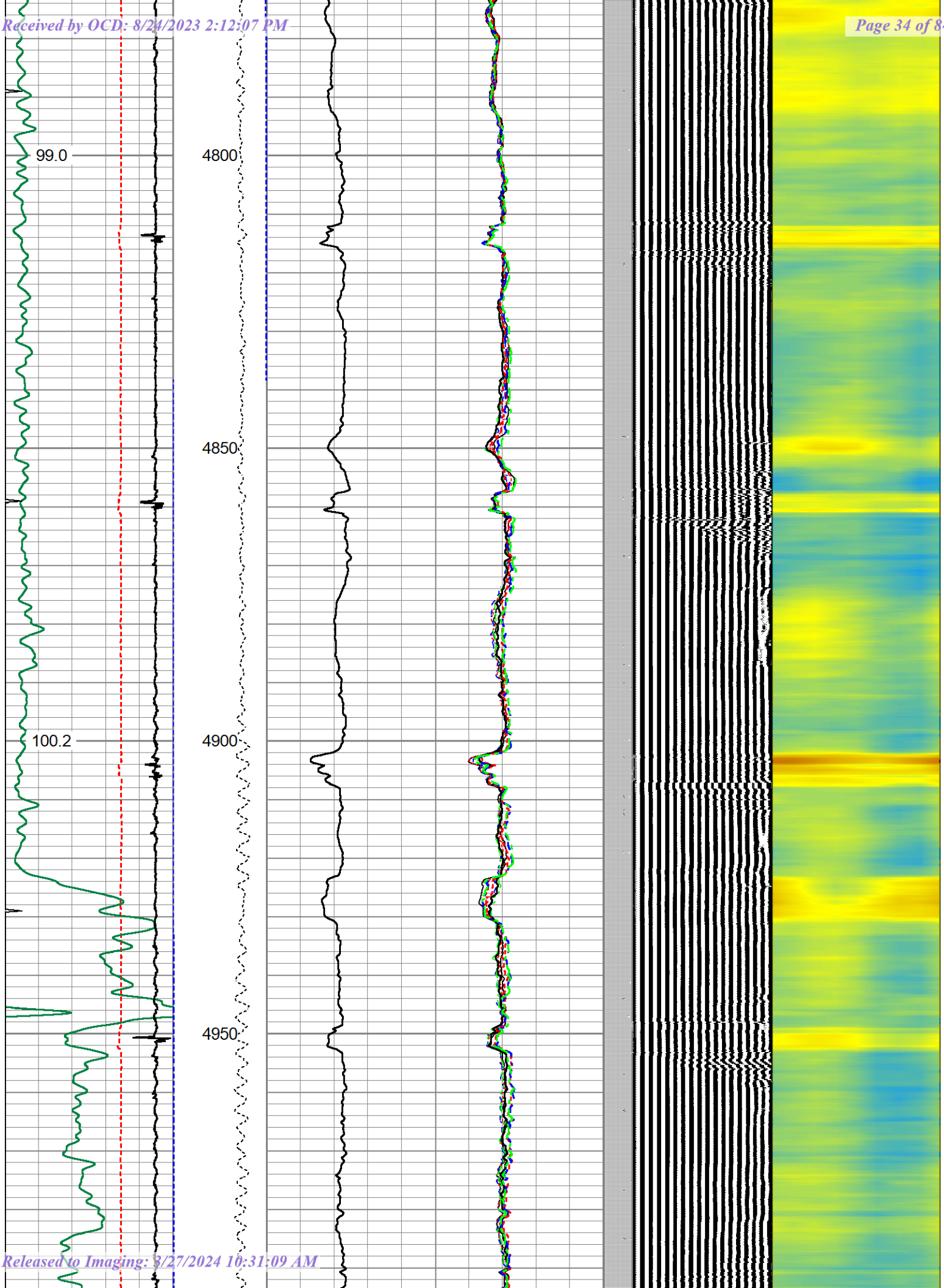
98.2
4700
4750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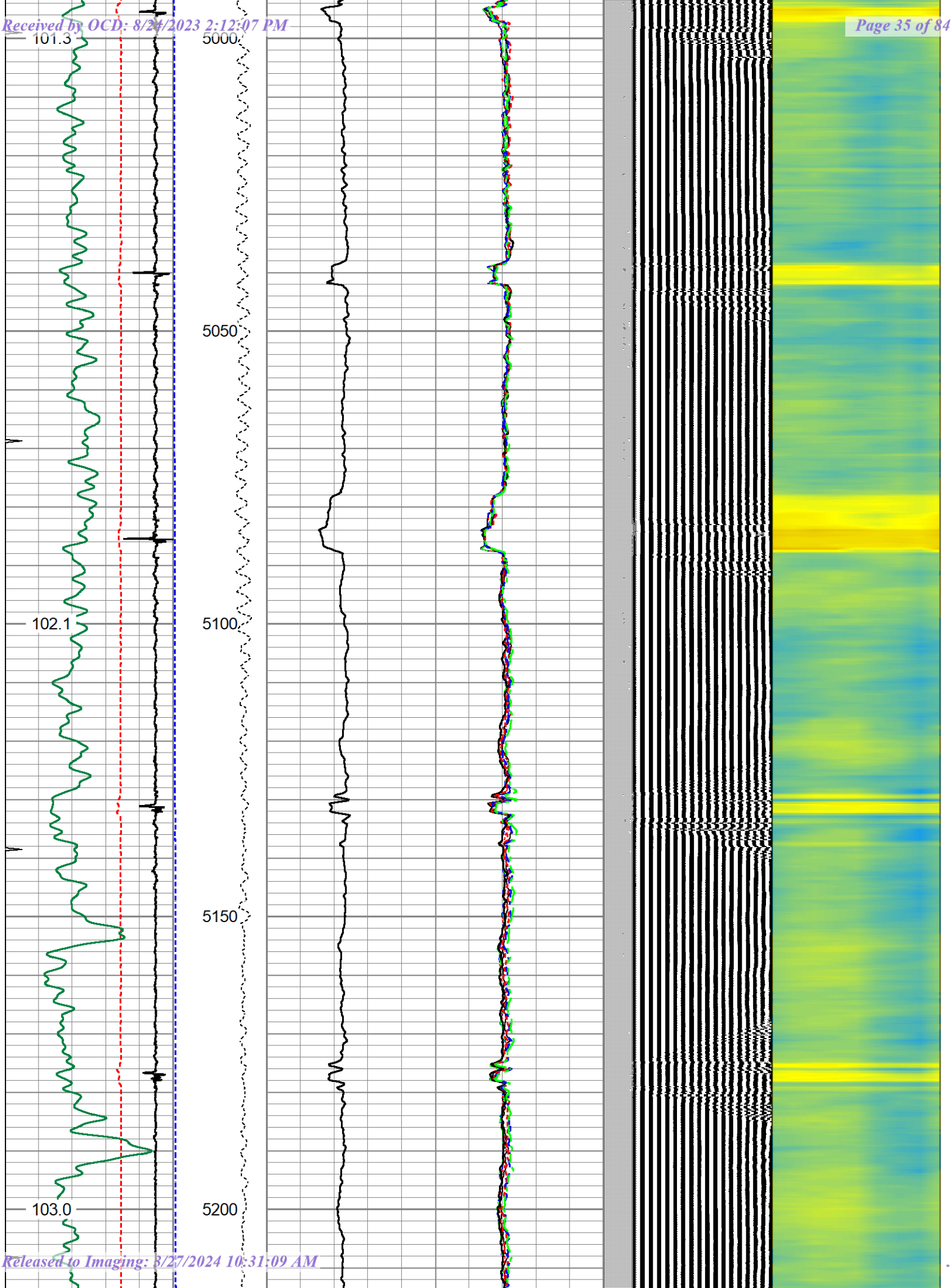

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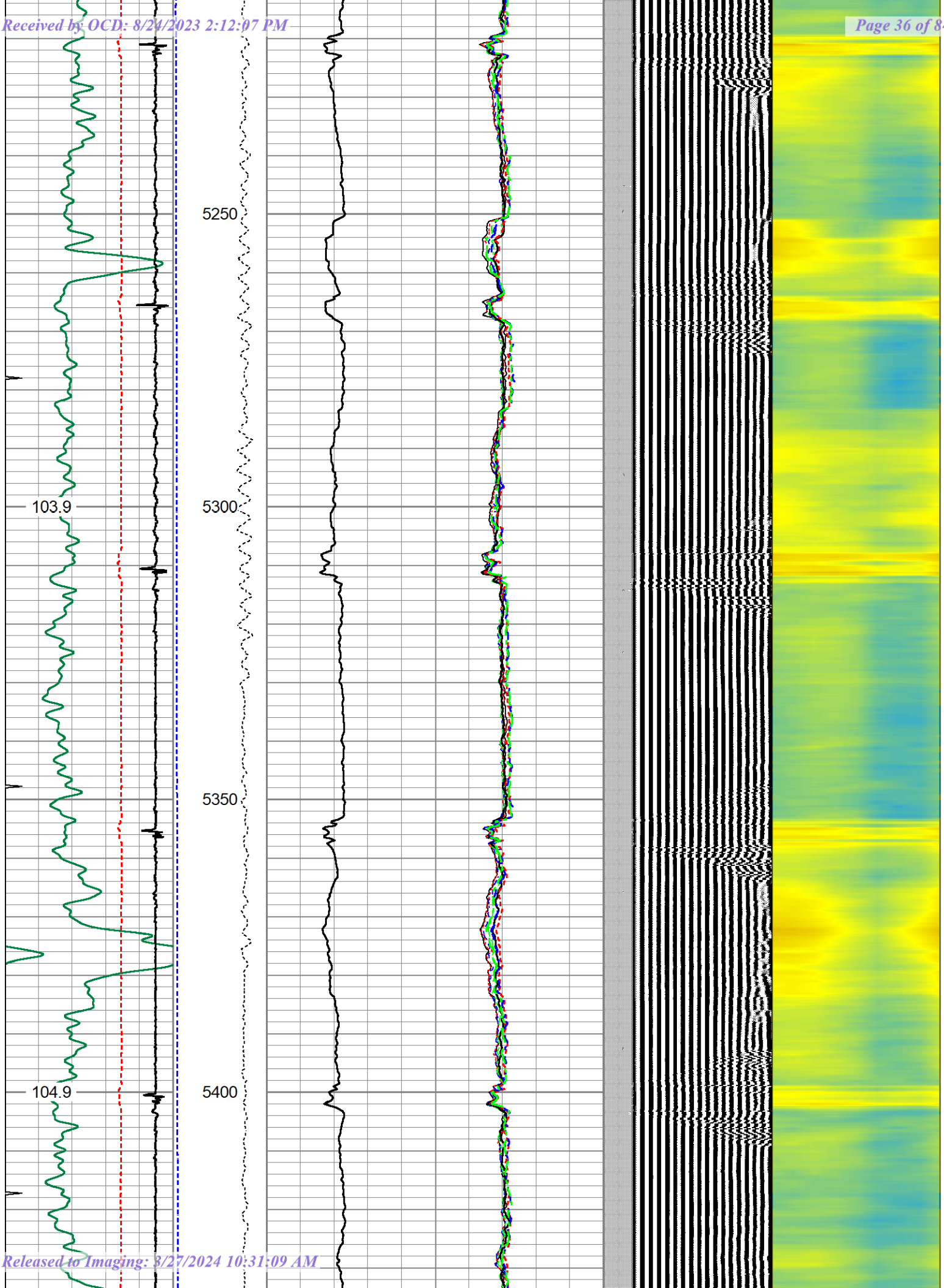
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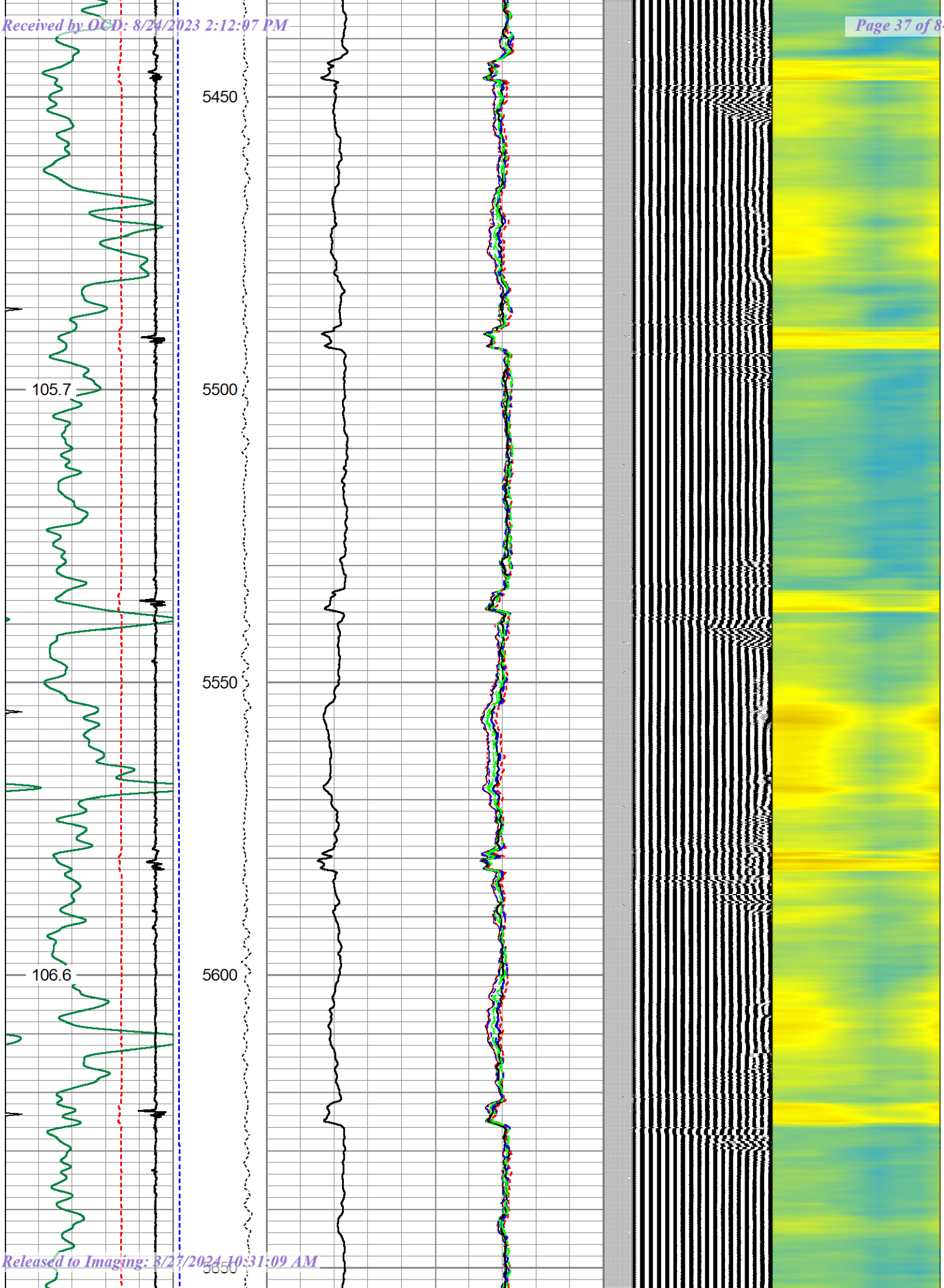
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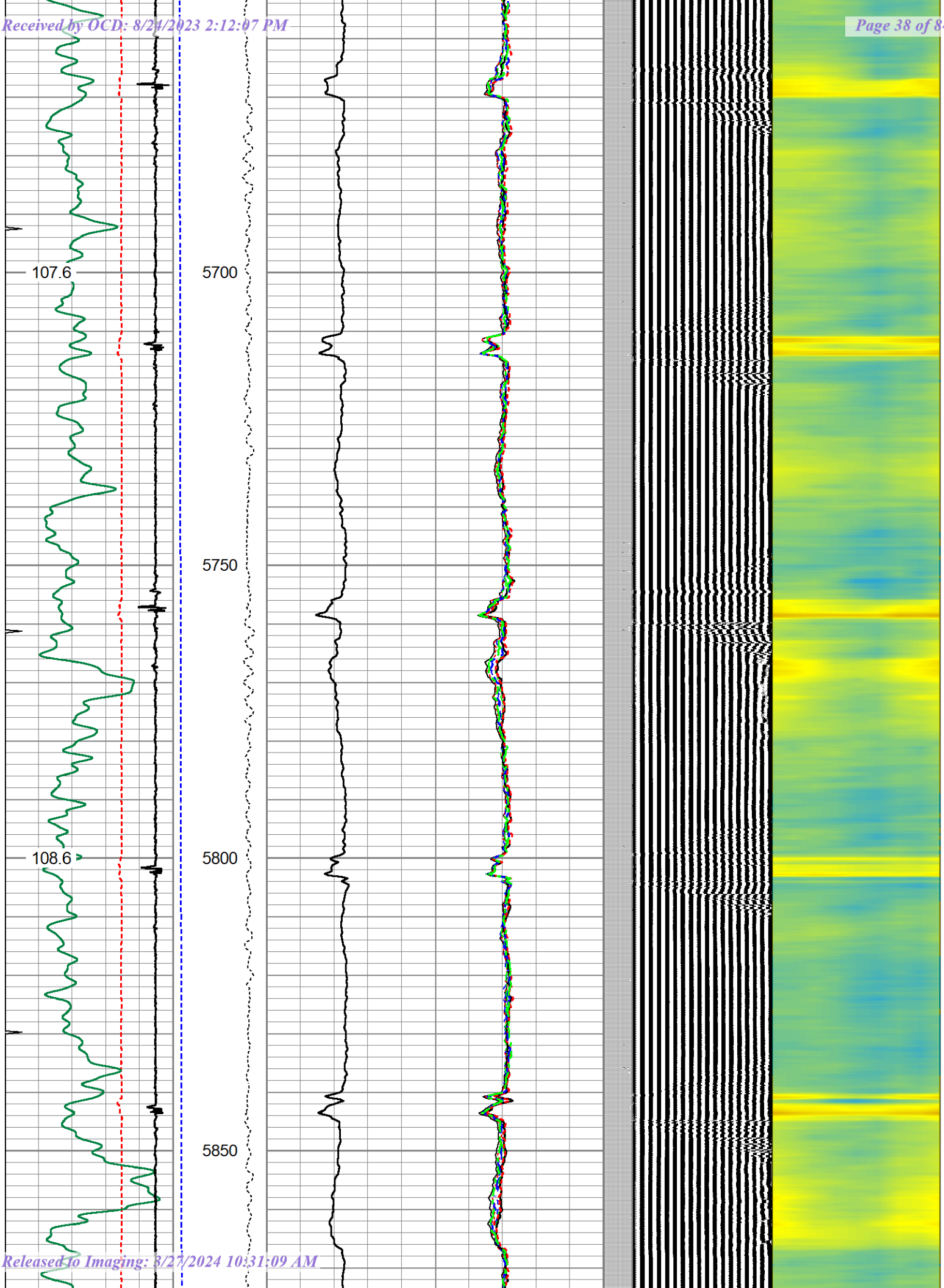
105.7
5500
5550
106.6
5600
5650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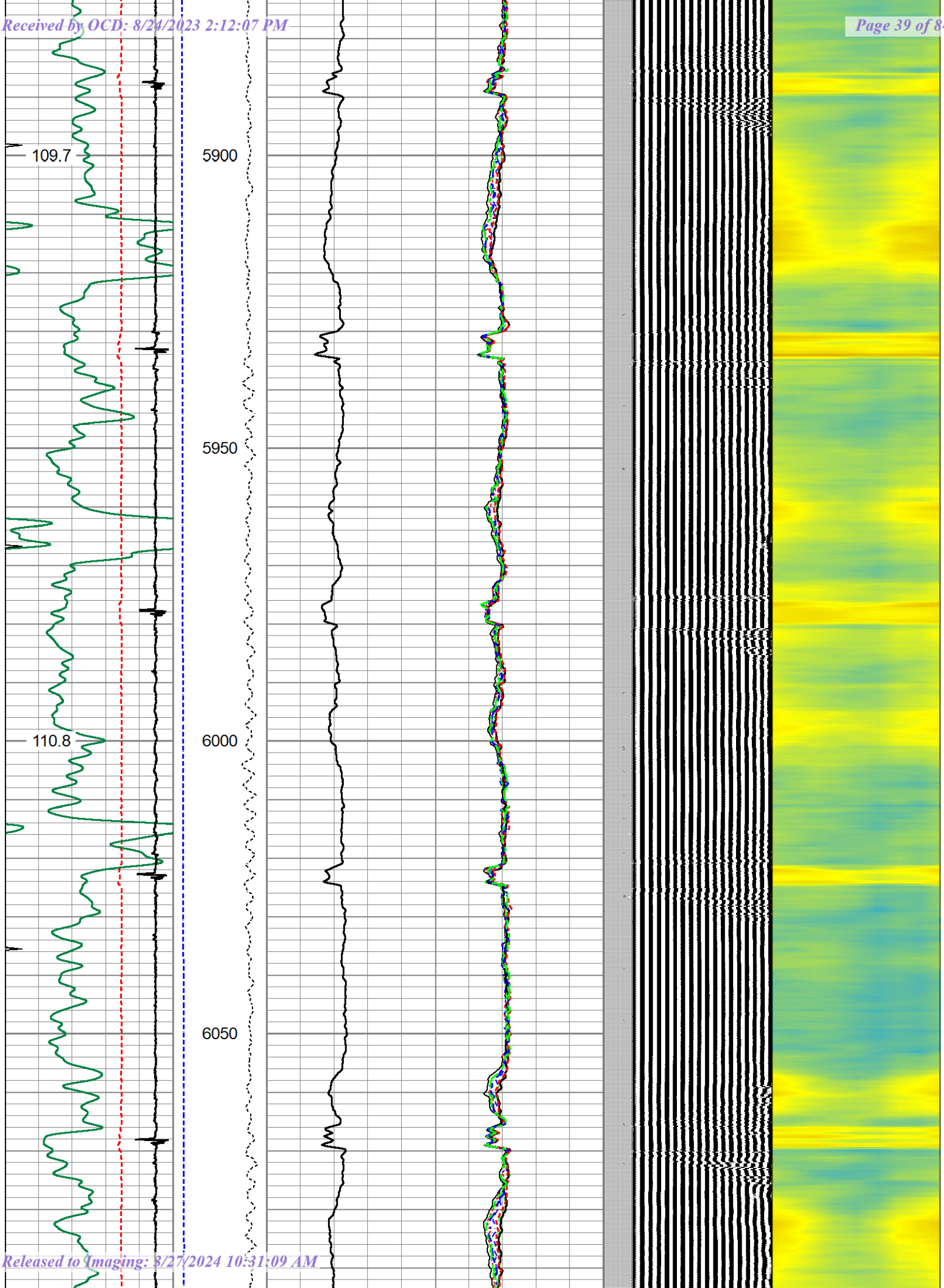
108.6
5700
5750
5800
5850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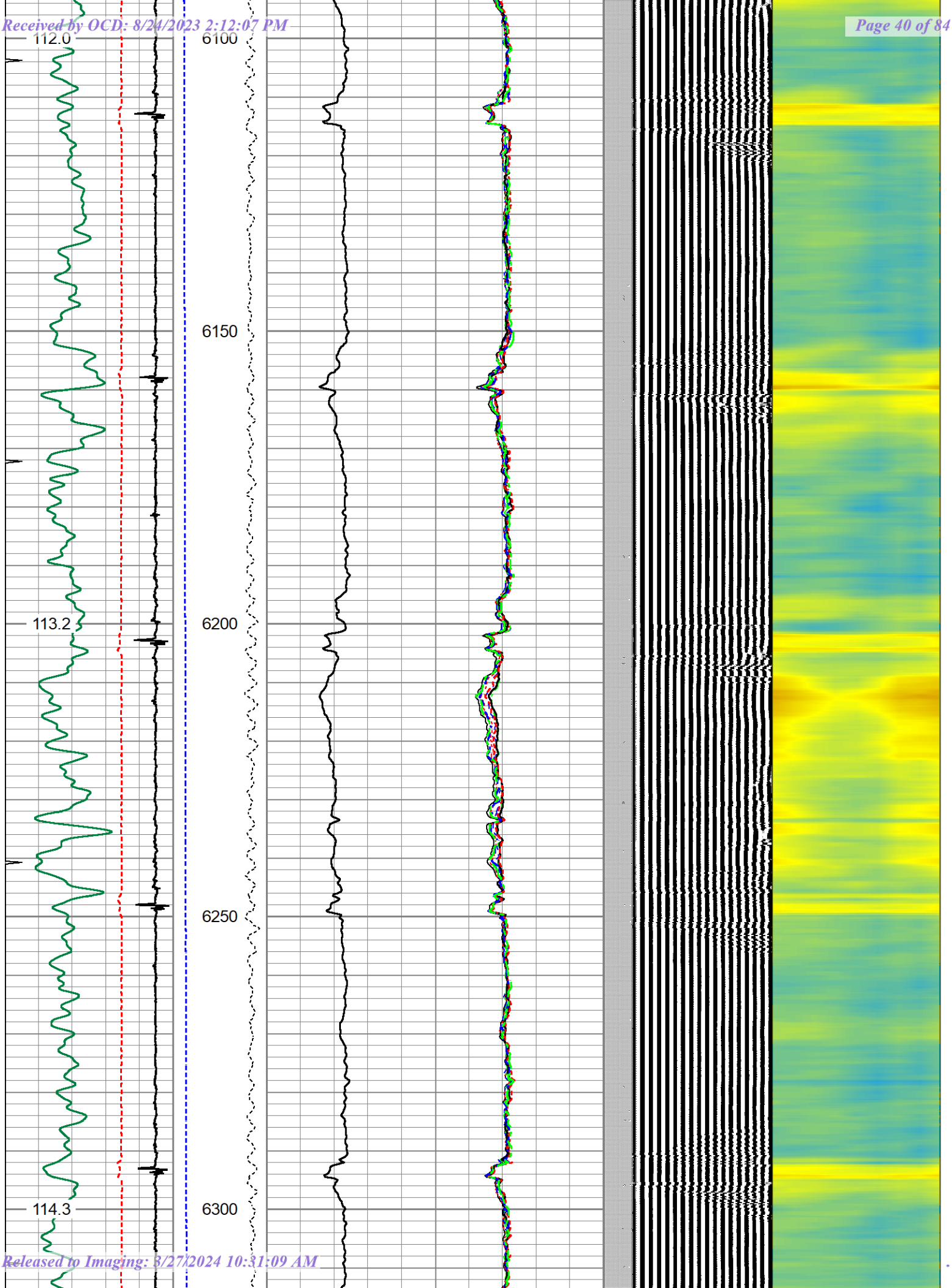
5950
6000
6050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113.2
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114.3
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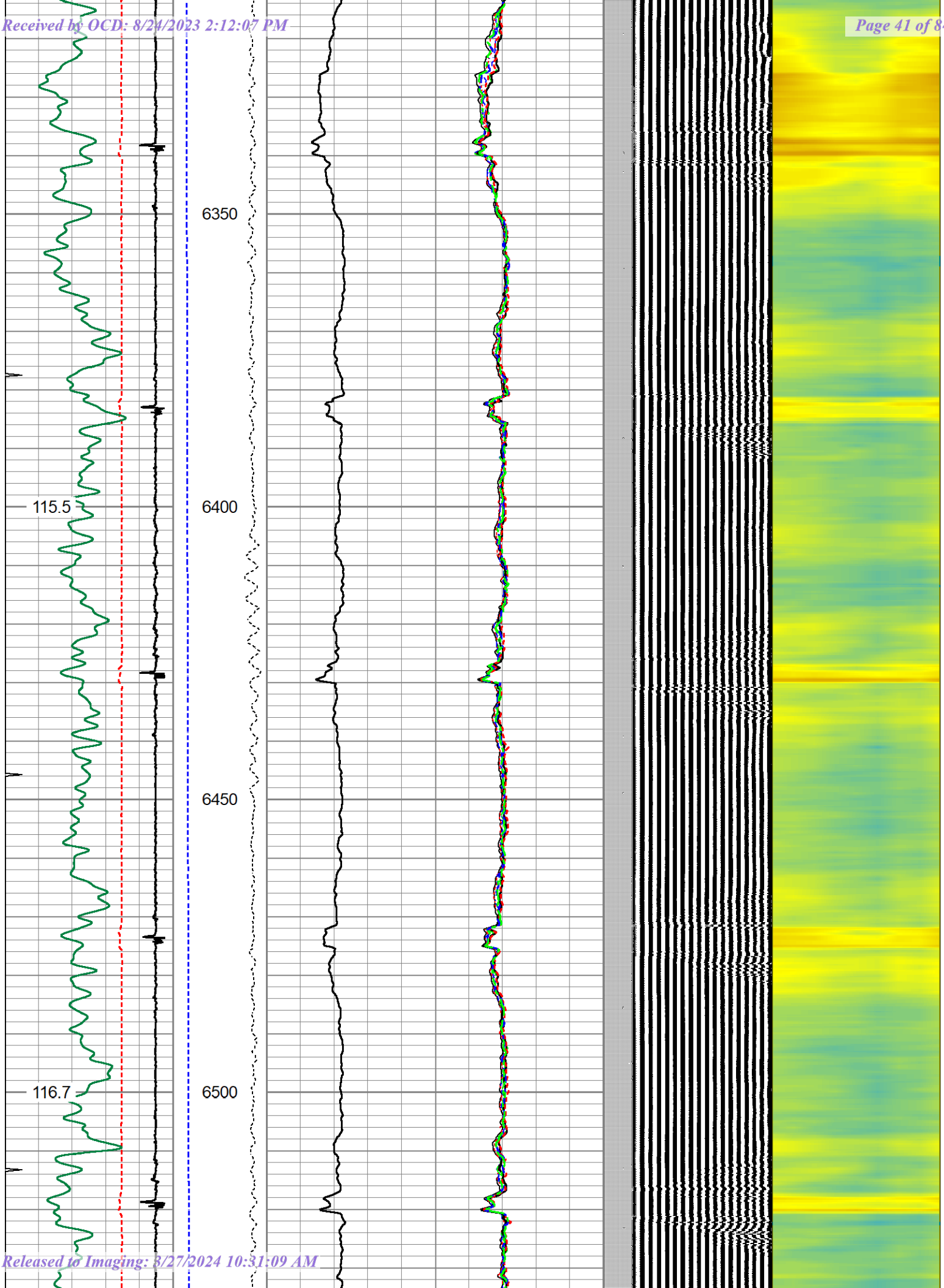
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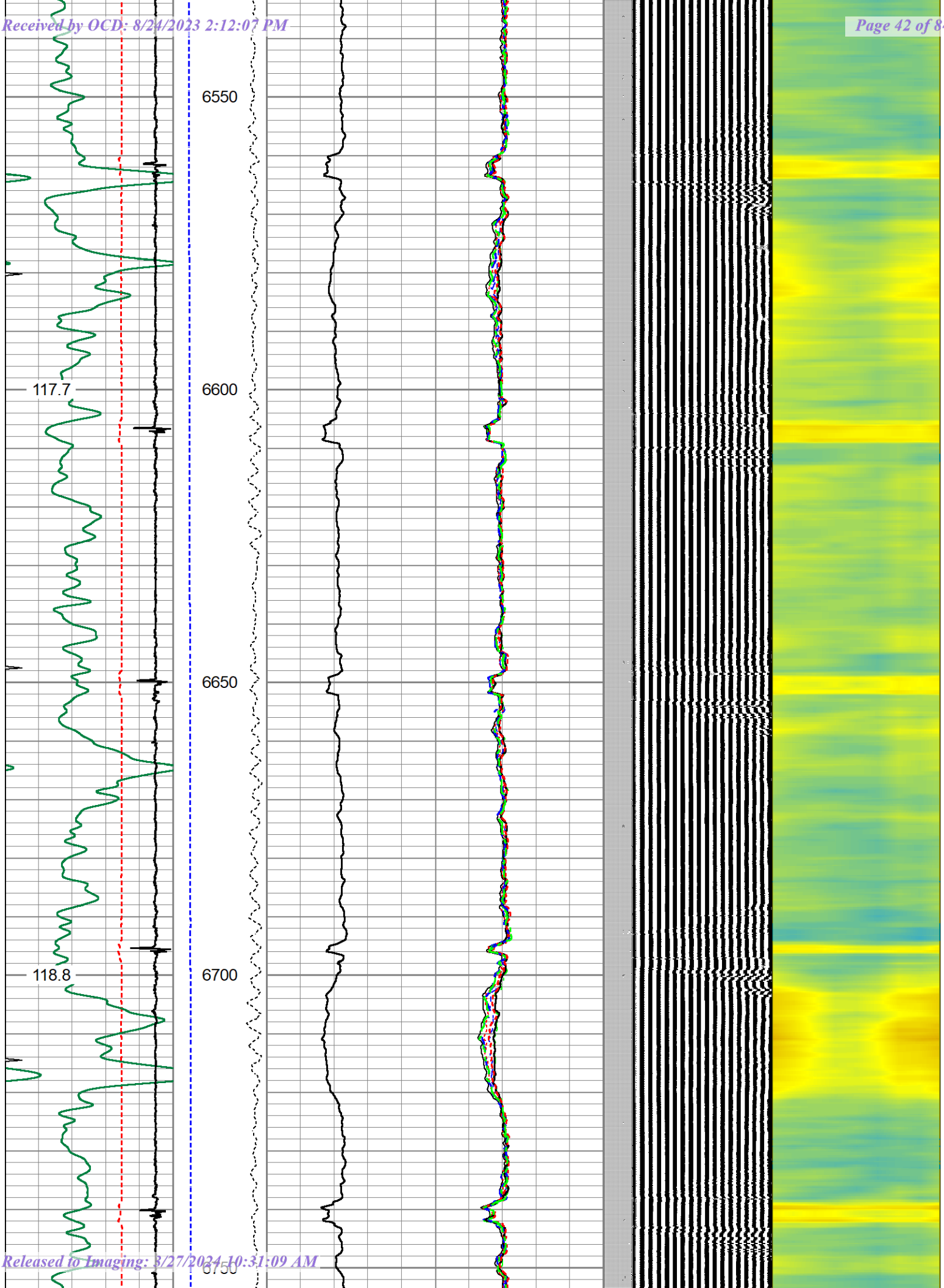
116.7
6500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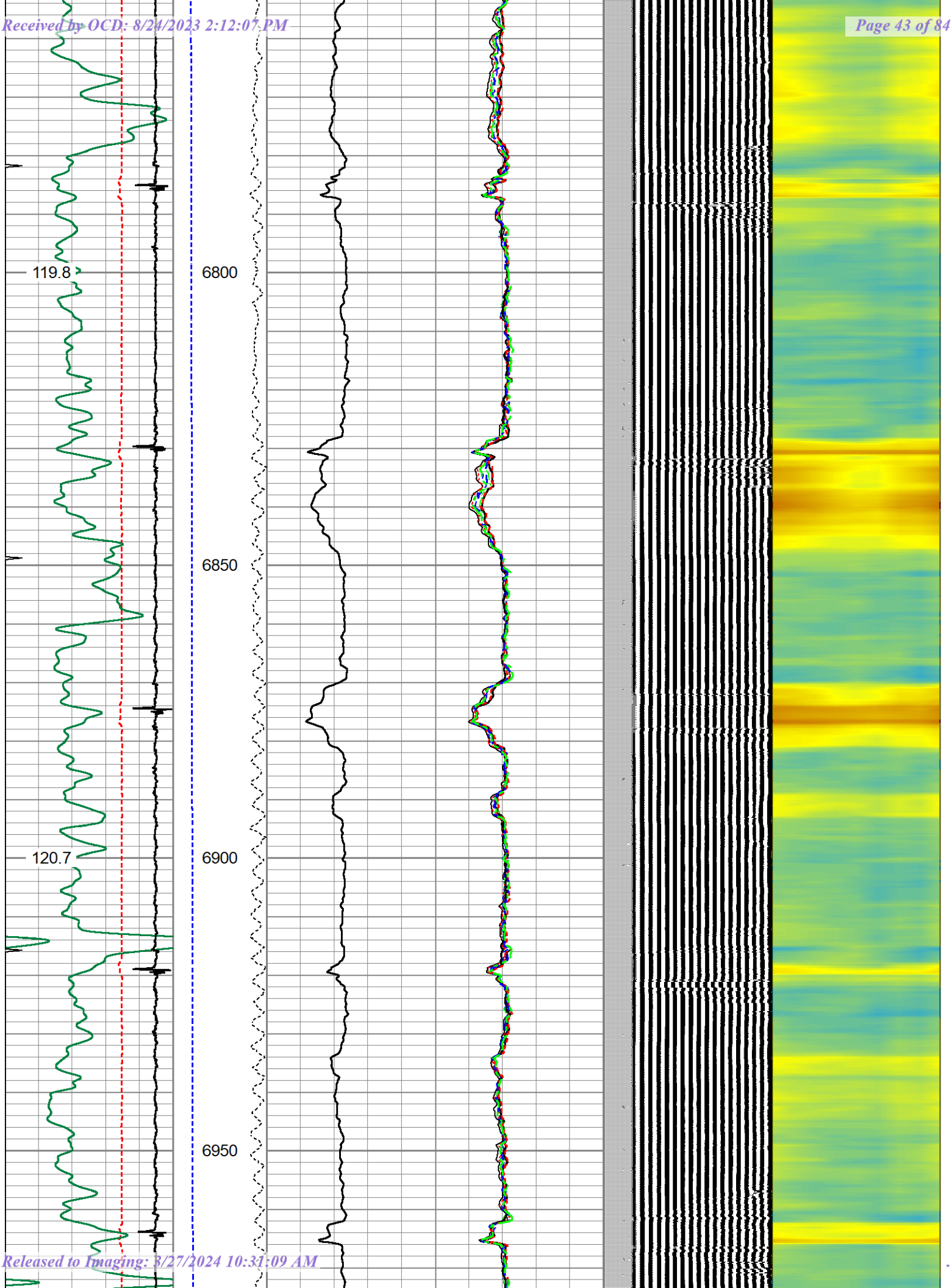
6650
118.8
6700
6750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120.7
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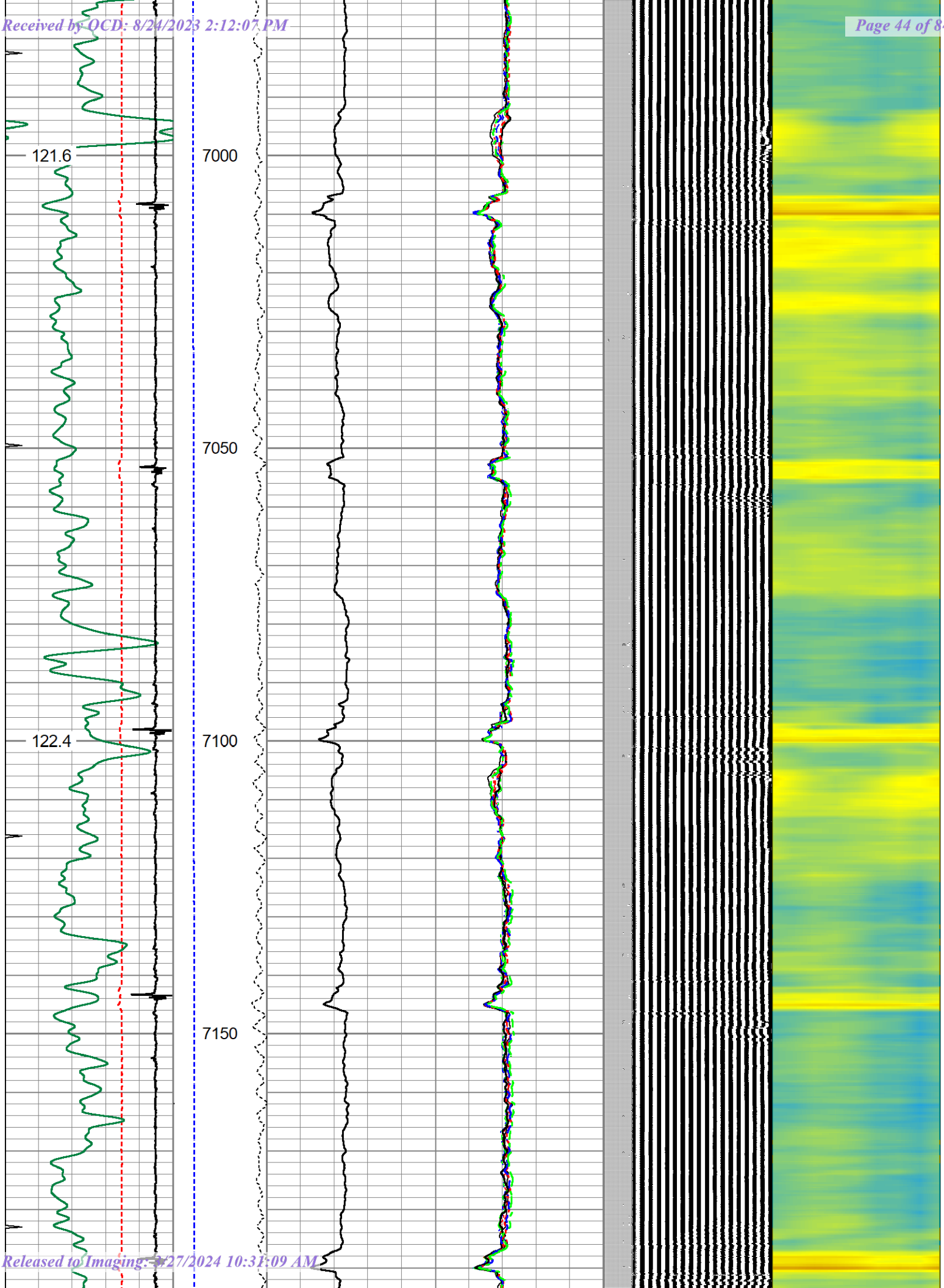
6950


121.6
122.4
7000
7050
7100
7150

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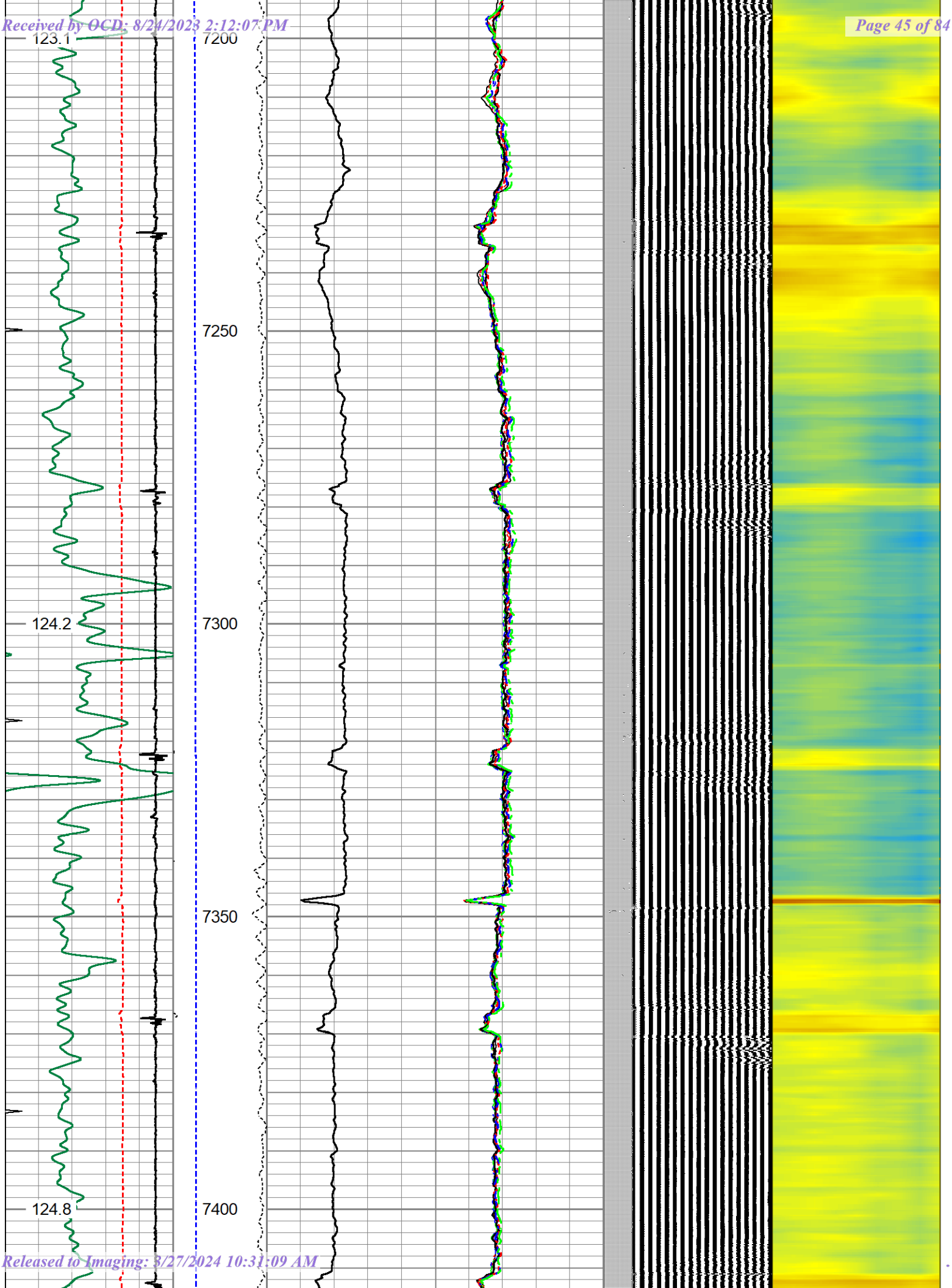

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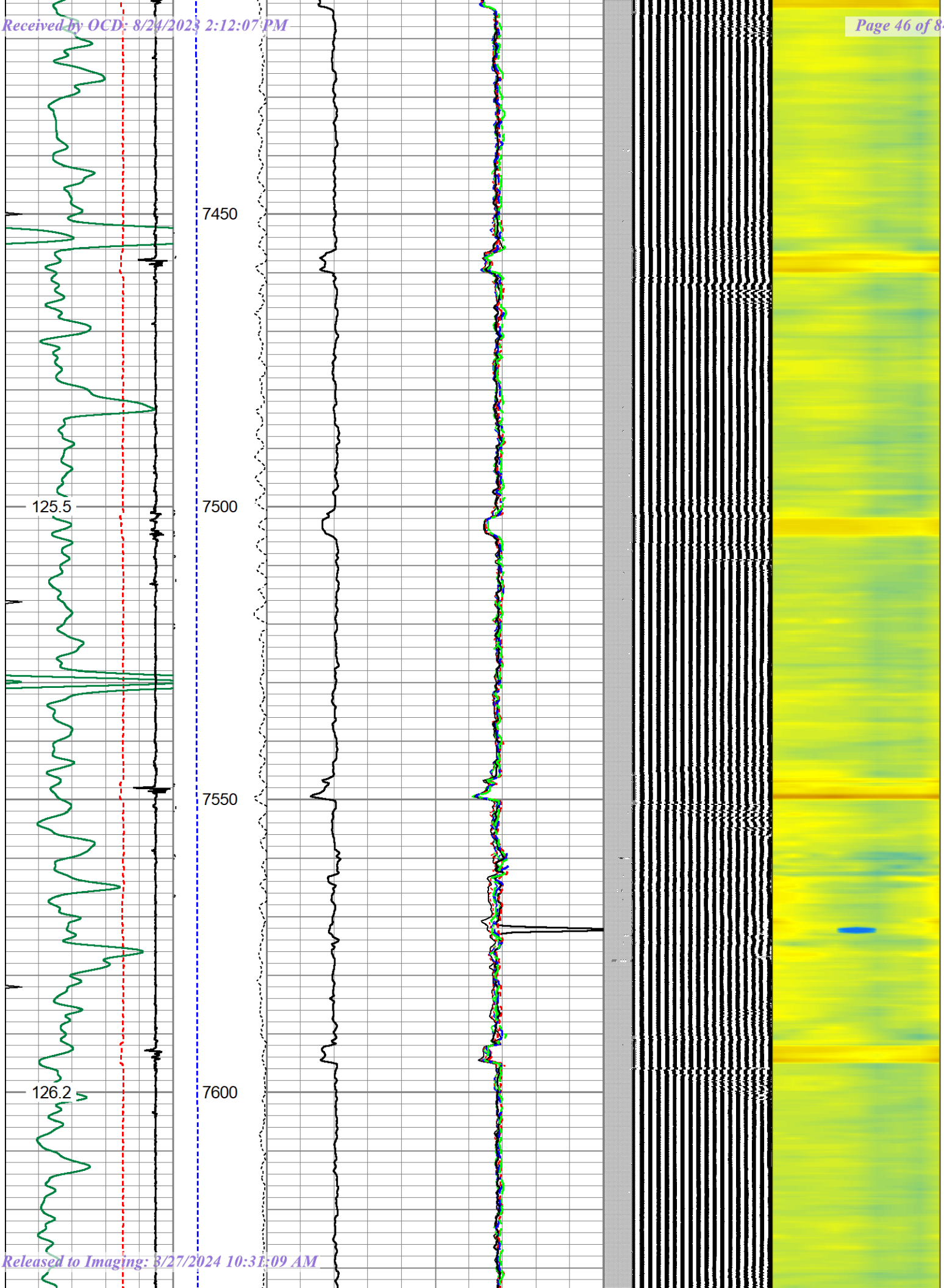
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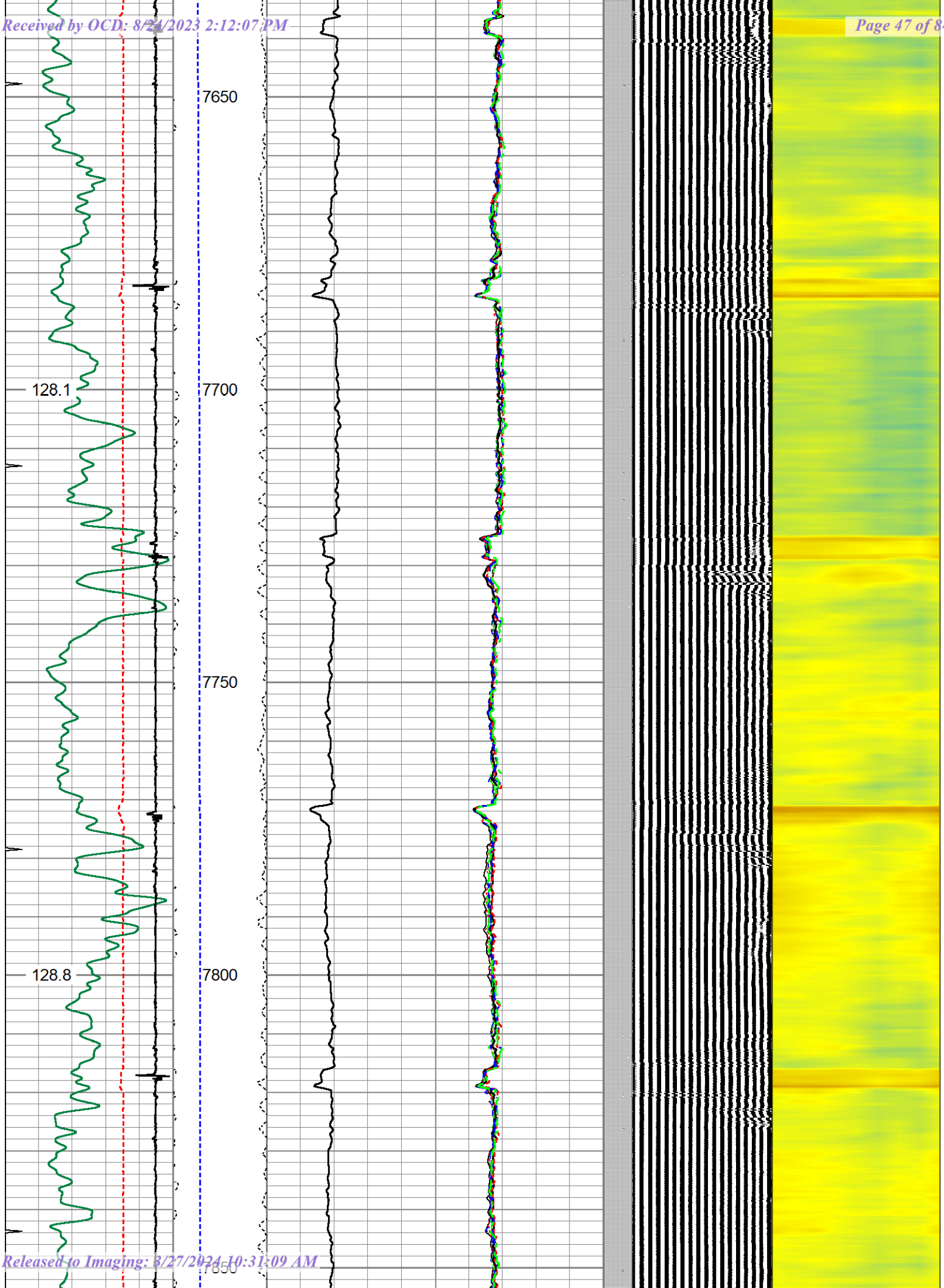
125.5
7500
7550
126.2
7600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128.1
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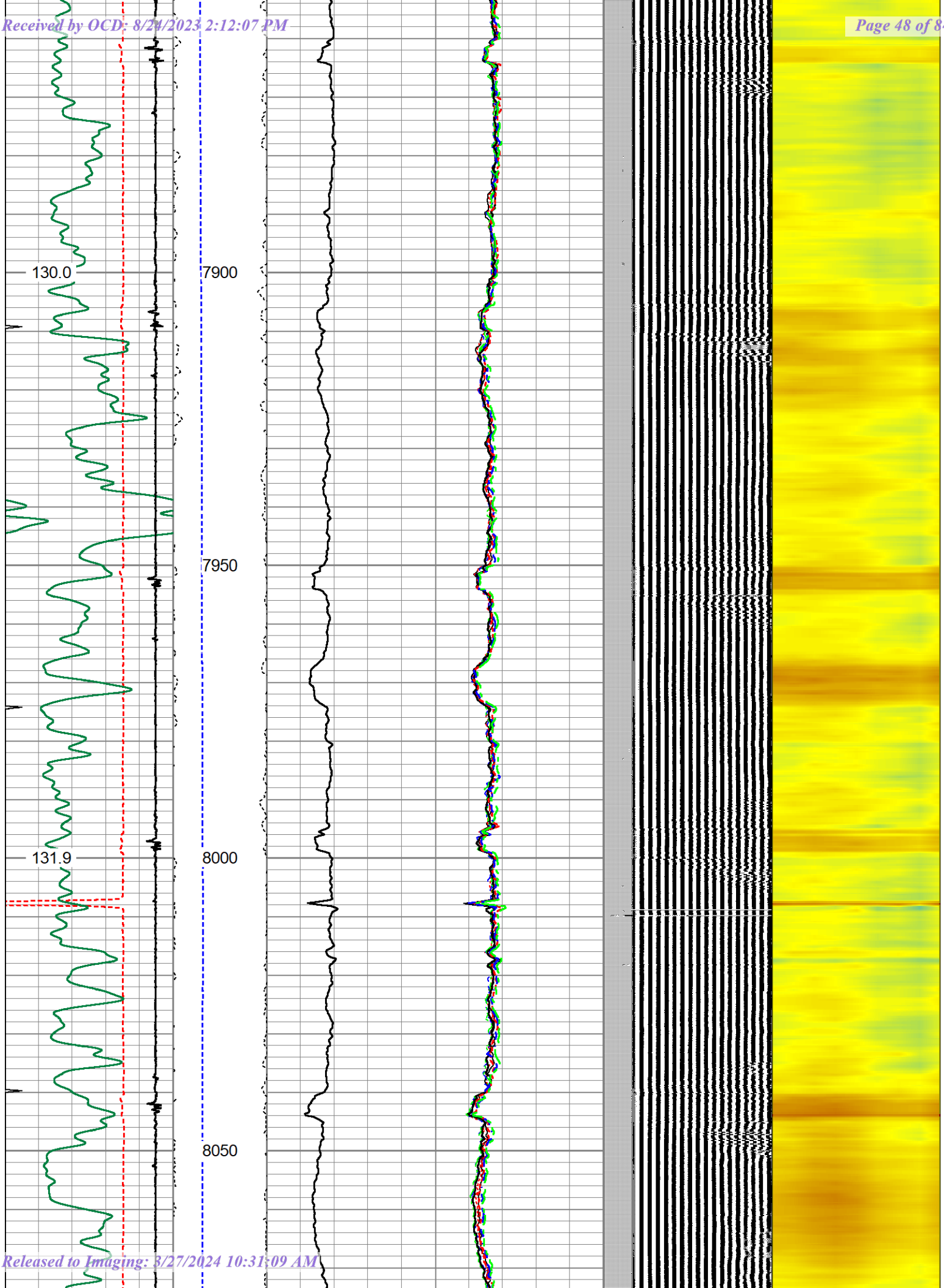
7750
128.8
7800
7850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131.9
8000
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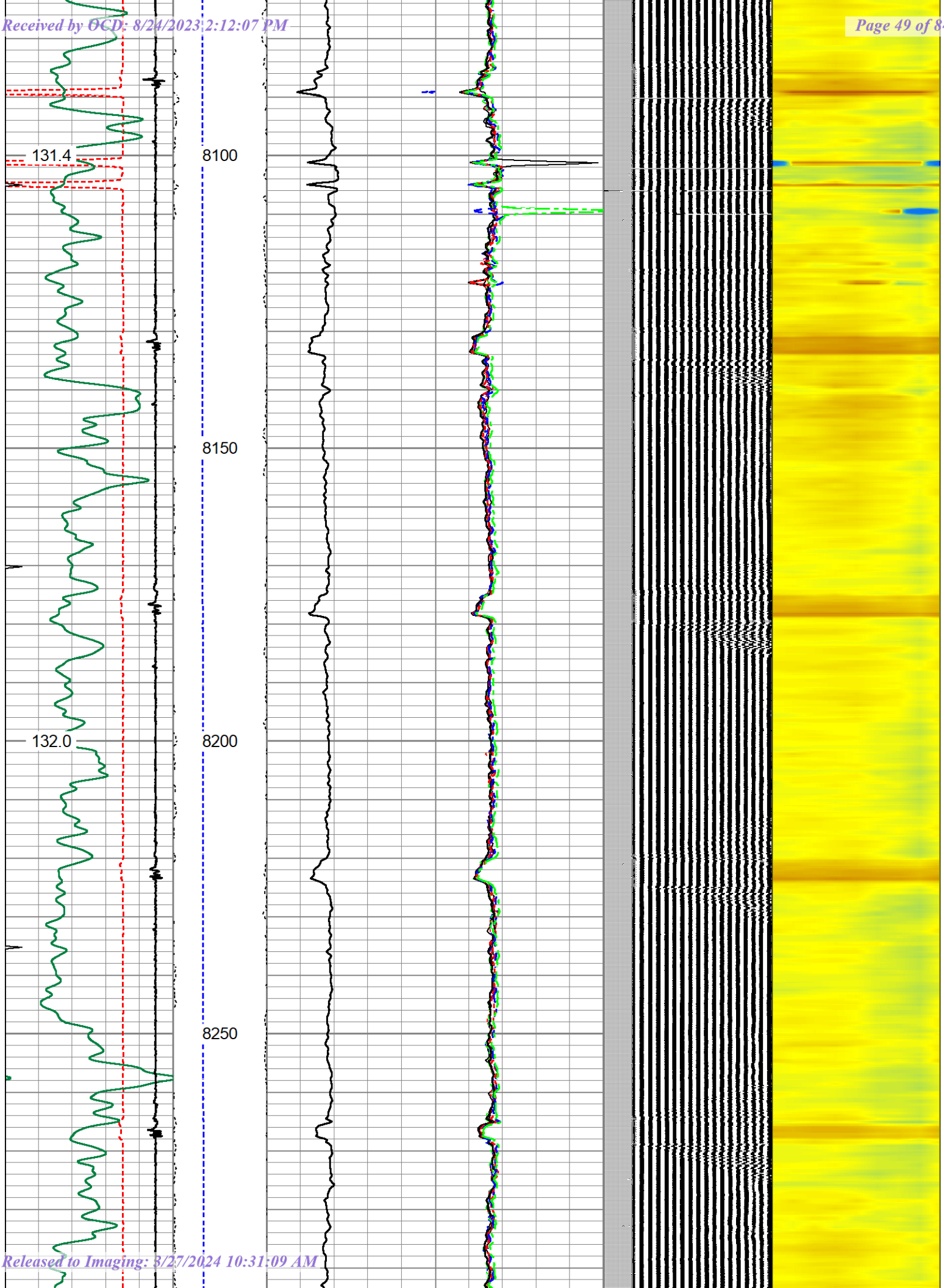
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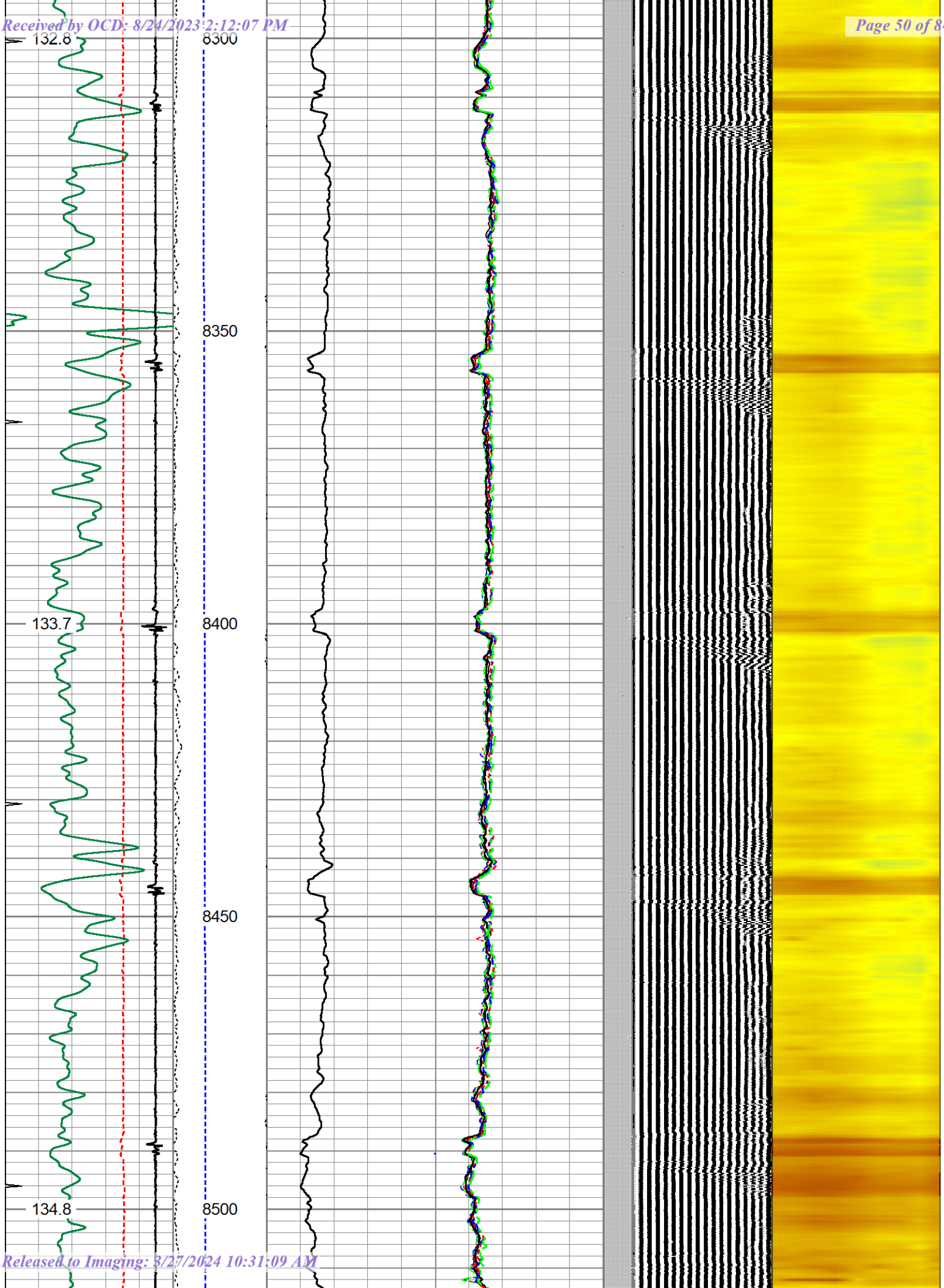
8100
8150
132.0
8200
8250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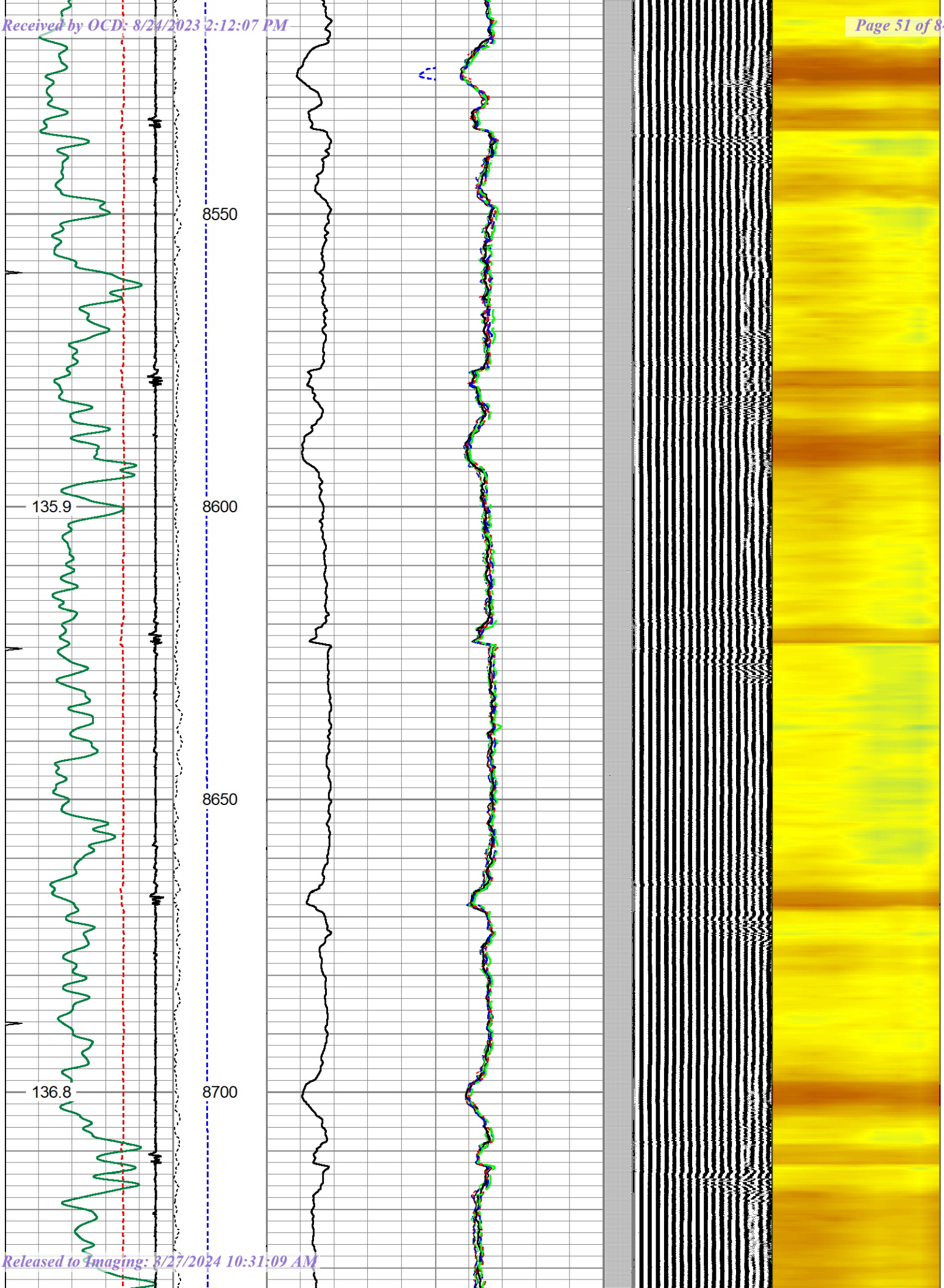
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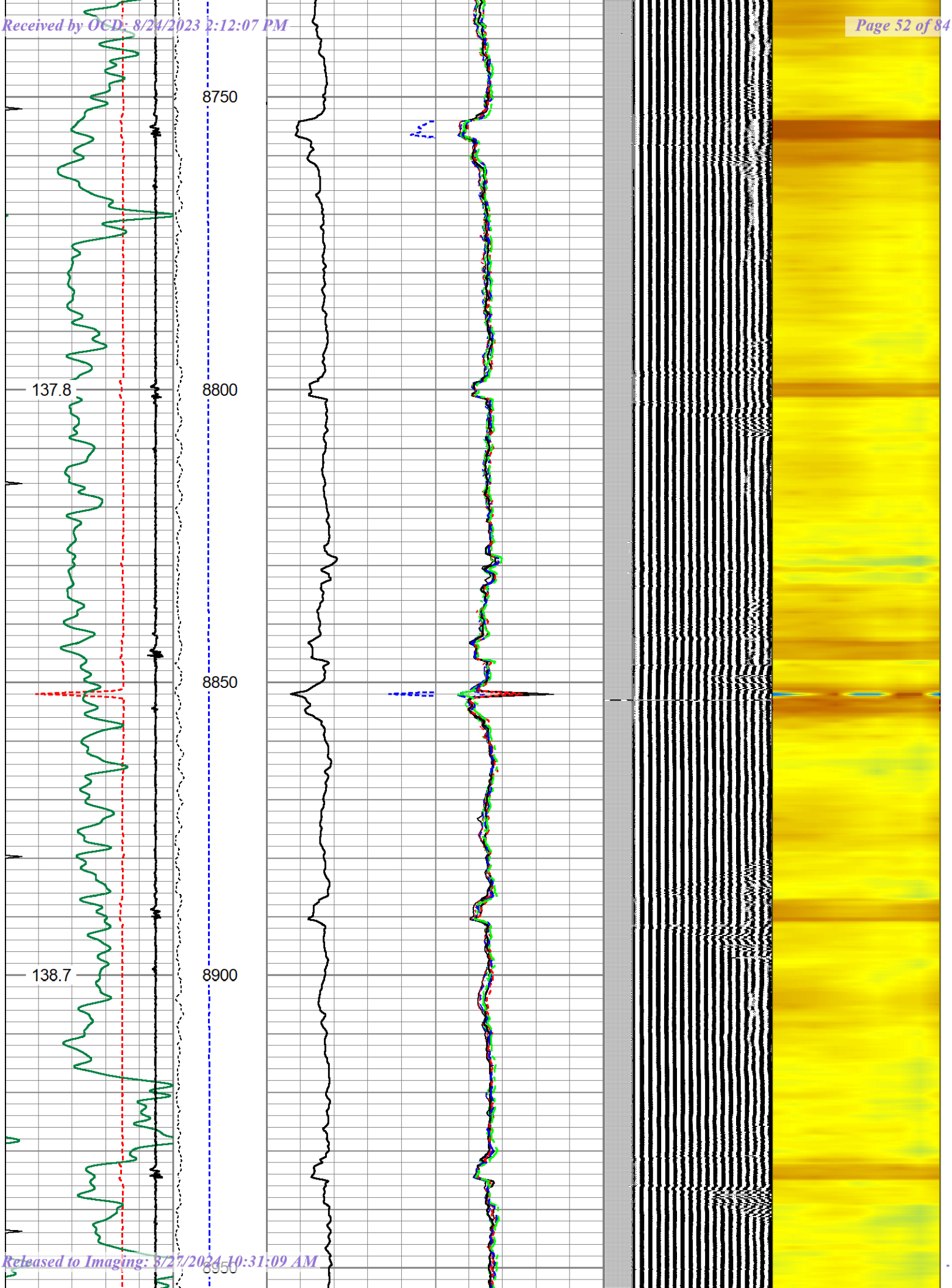
8650
136.8
8700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138.7
8900
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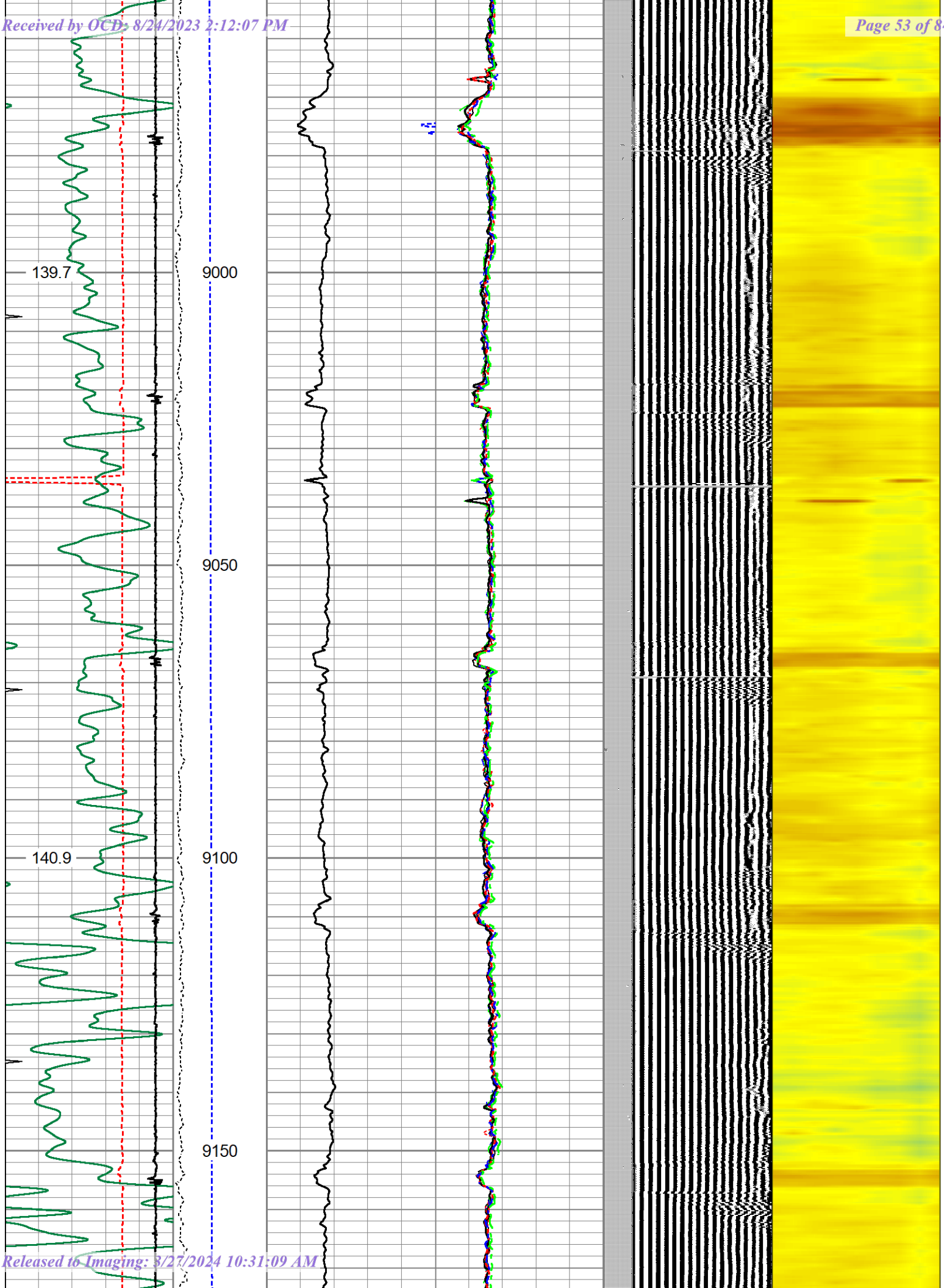

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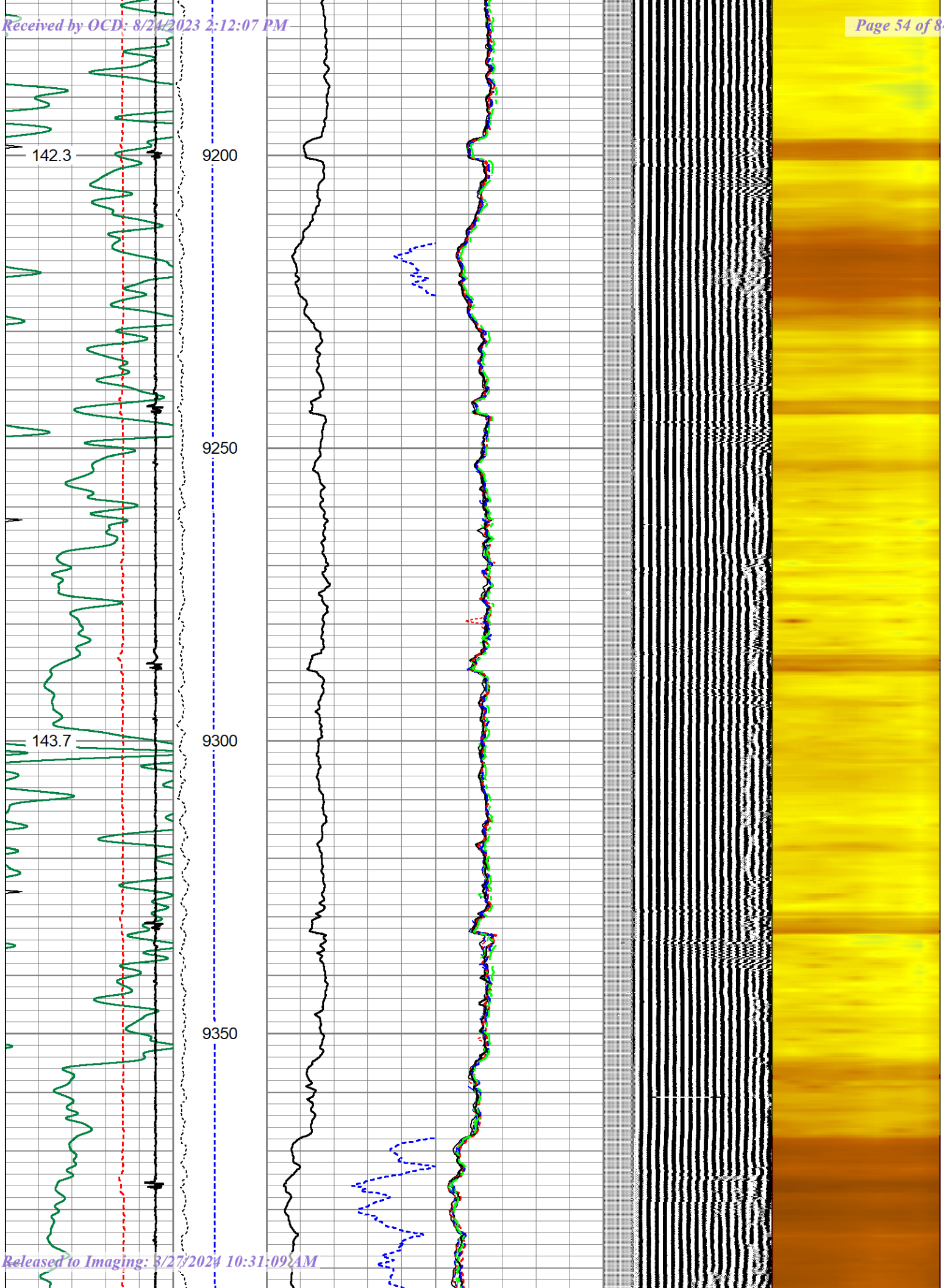
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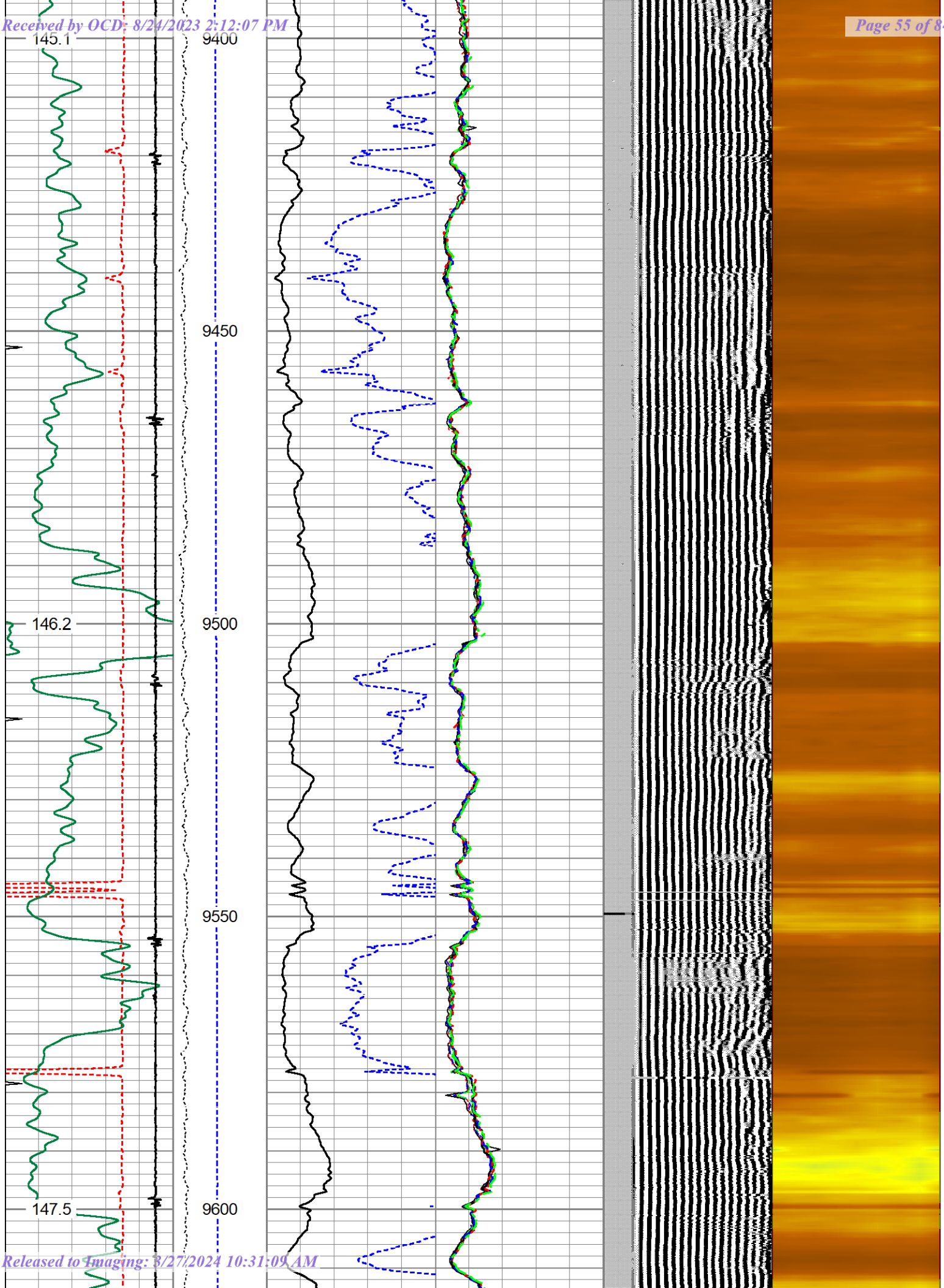
9200
9250
143.7
9300
9350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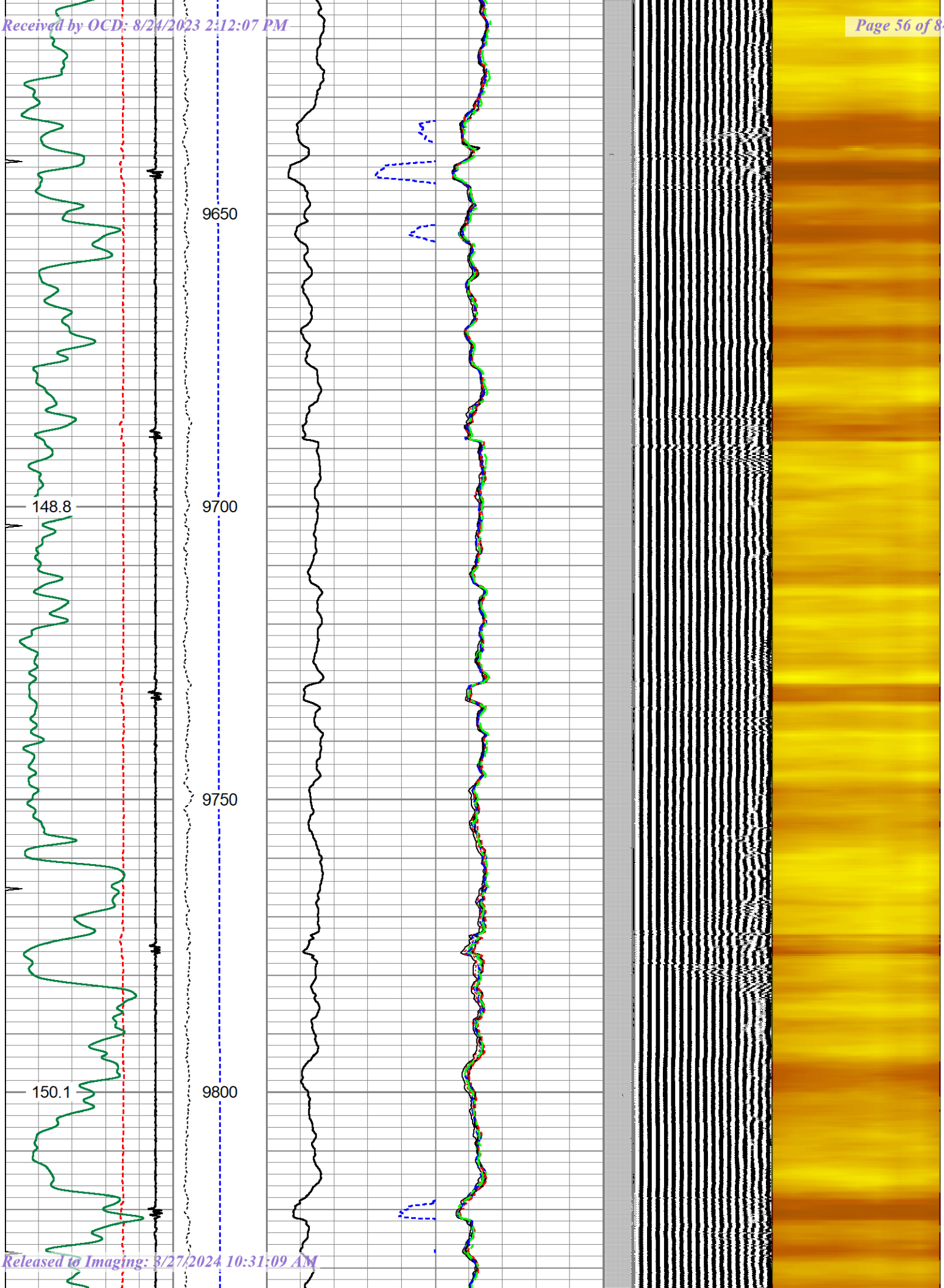
9450
146.2
9500
9550
147.5
9600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9700
9750
150.1
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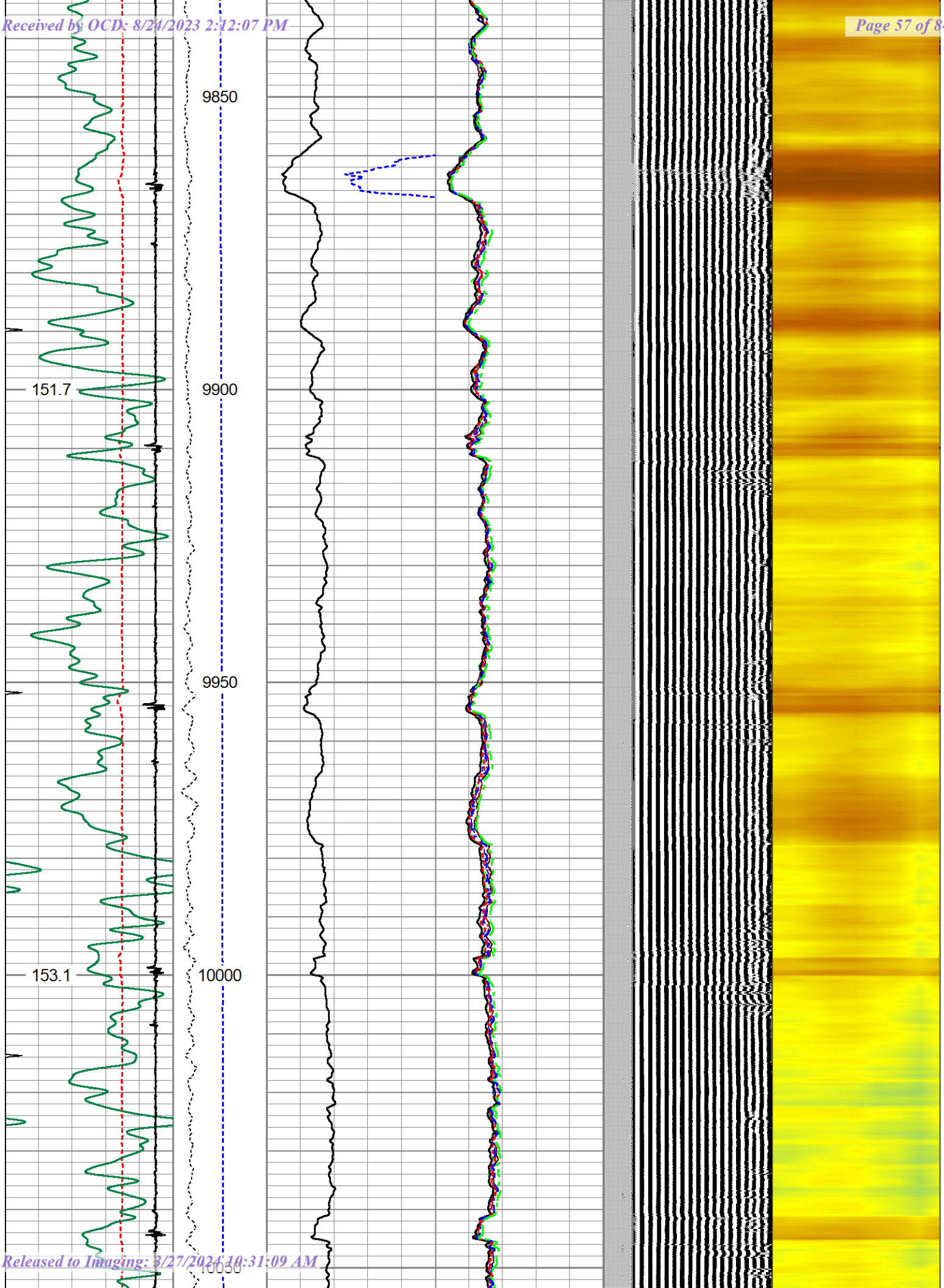
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9950
153.1
10000
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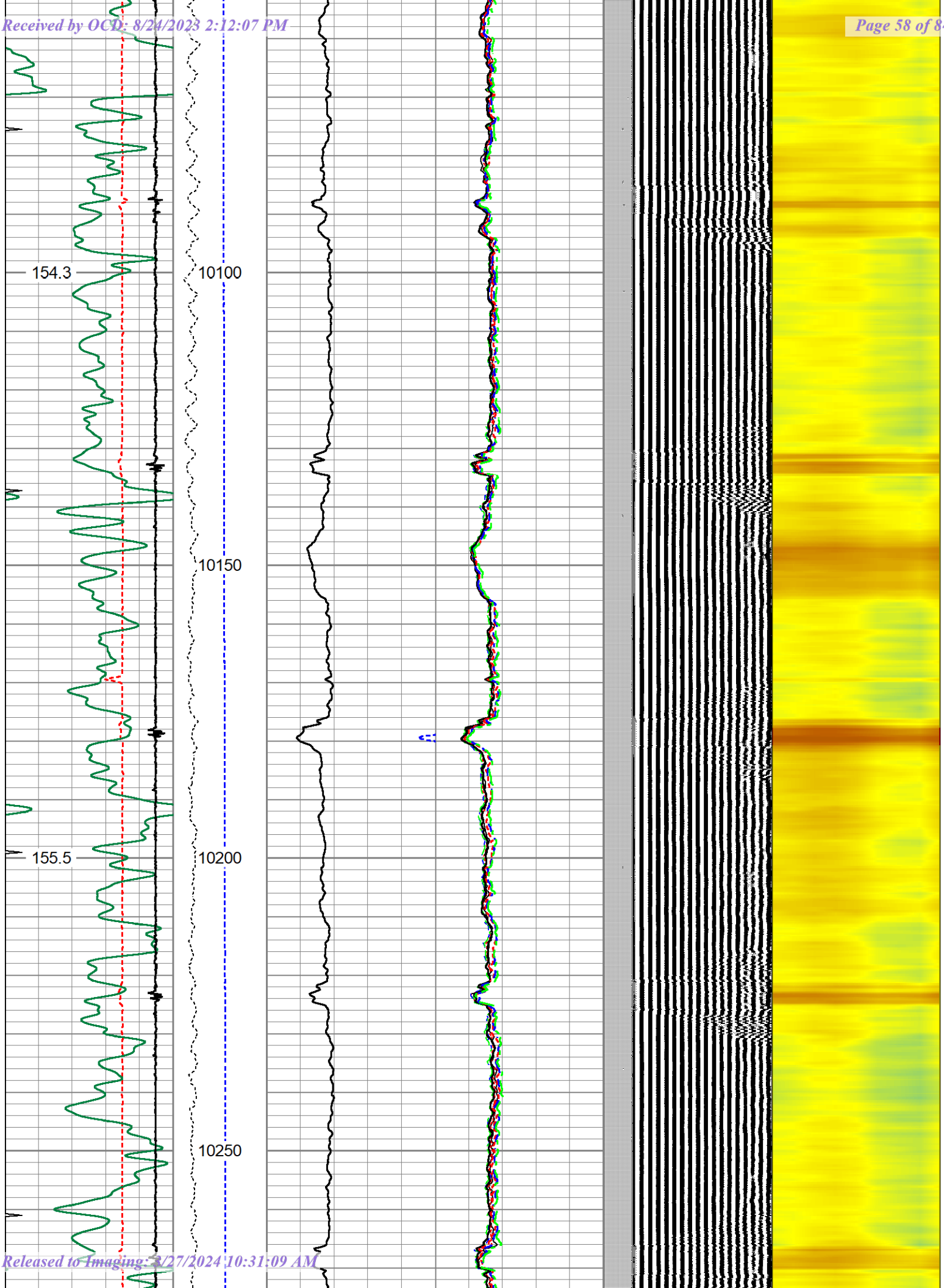
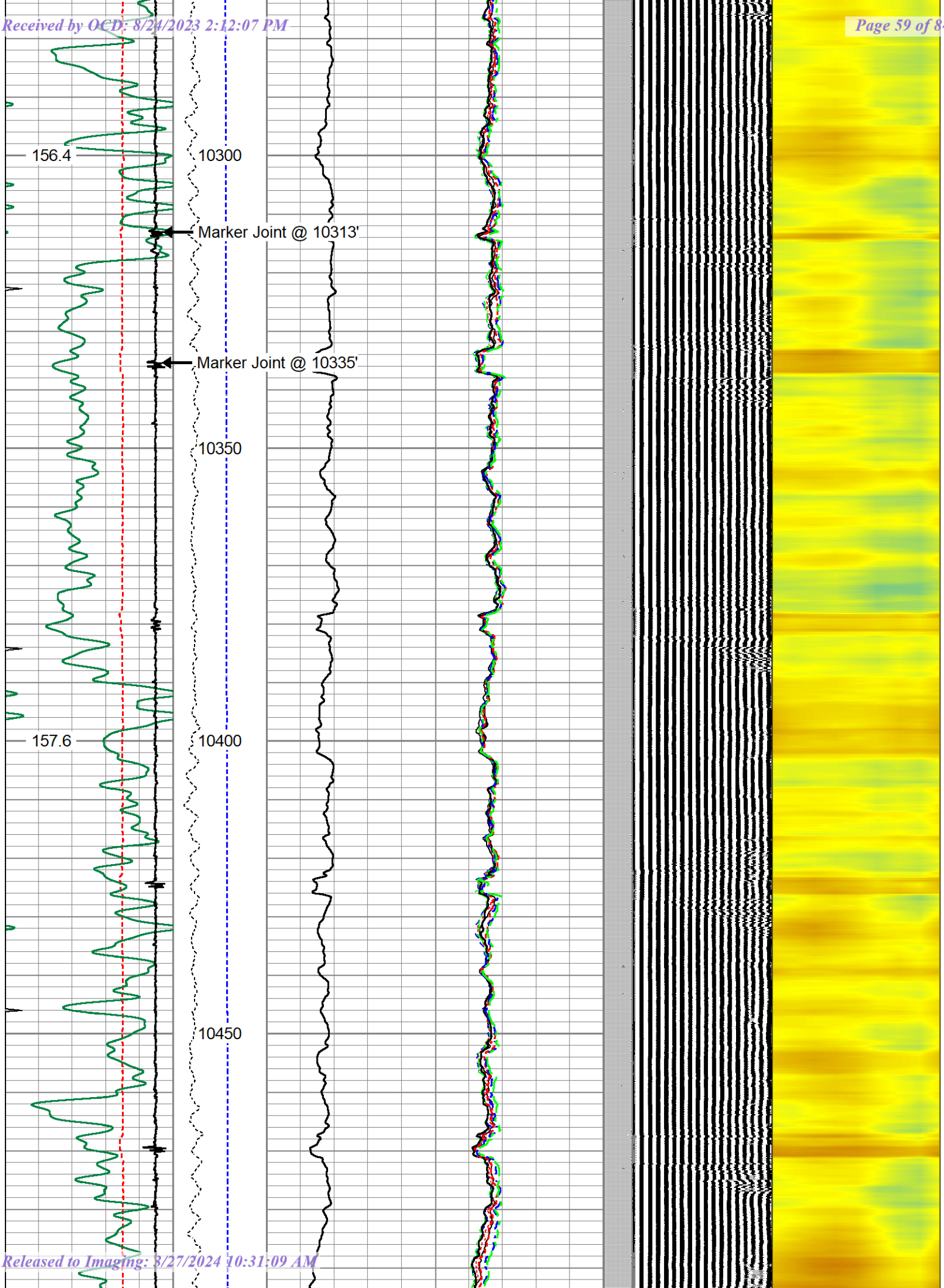
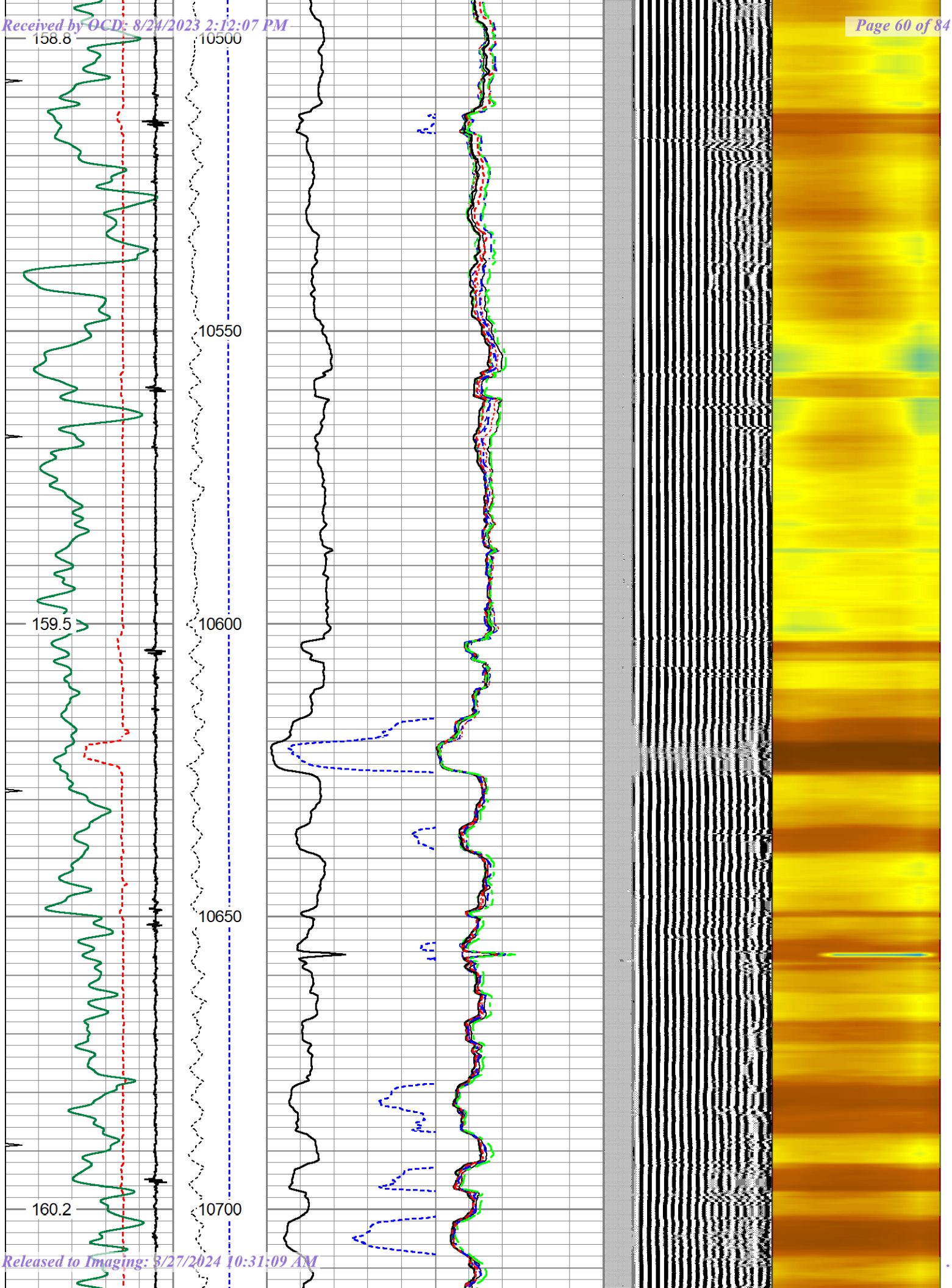

154.3
155.5
10100
10150
10200
10250


156.4
10300
Marker Joint @ 10313'
Marker Joint @ 10335'
10350
157.6
10400
10450

Received by OCD: 8/24/2023 2:12:07 PM



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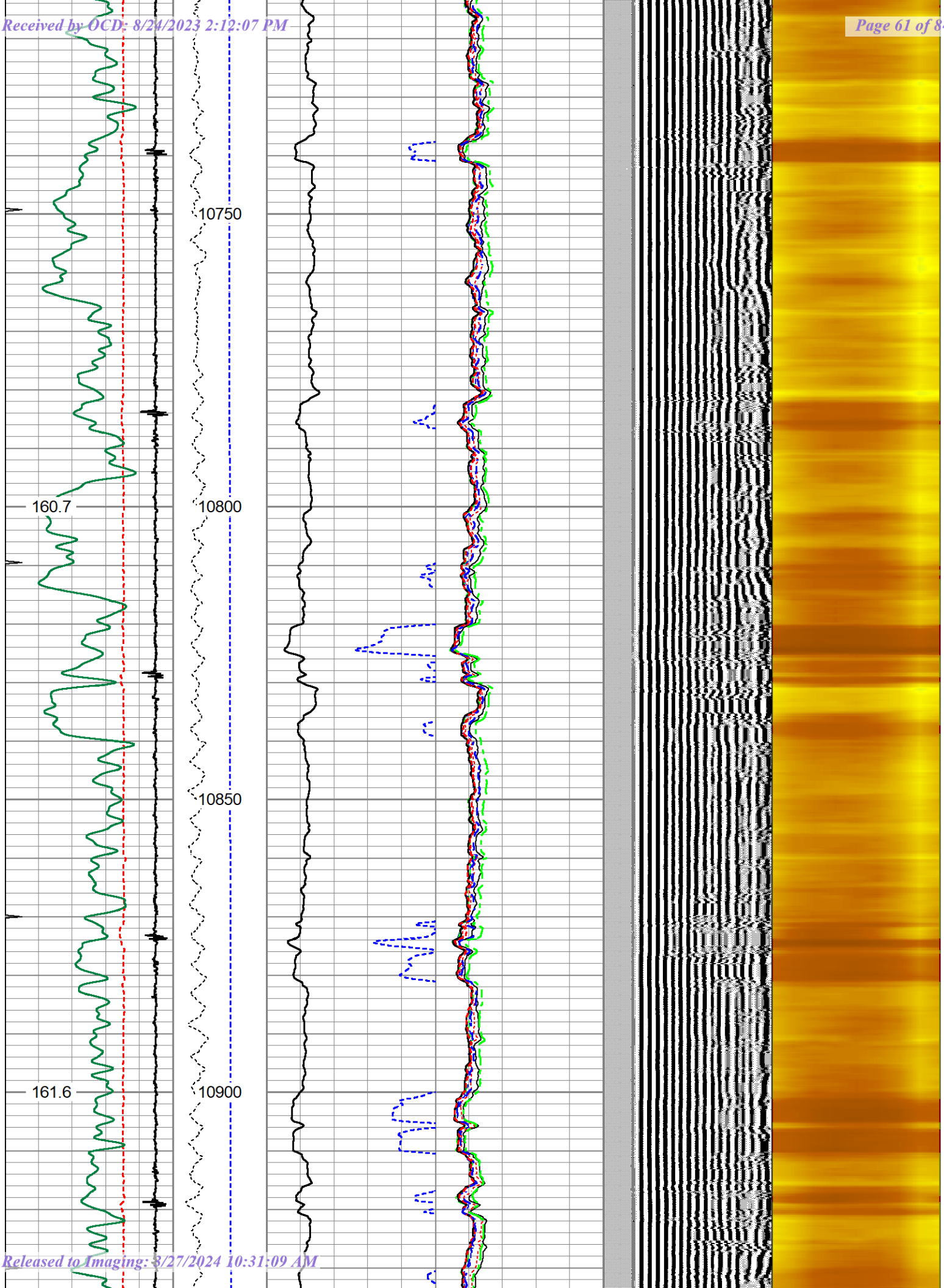
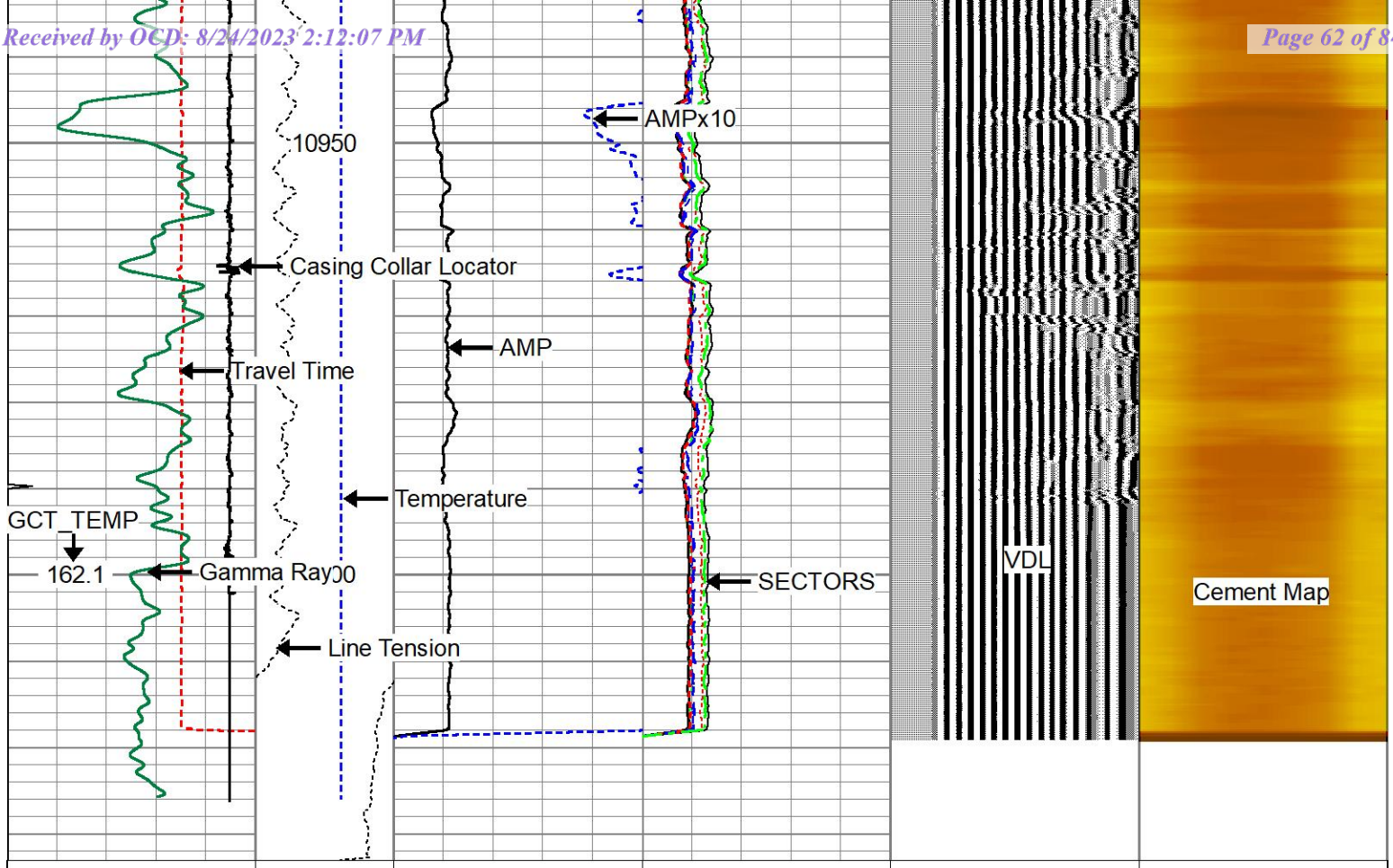

10750
160.7
10800
10850
161.6
10900



400	TT (usec)	200	GCT_TEMP (degF) 100 200	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
0	GR (GAPI)	150		0	AMPx10 (mV)	20	0	AMPS2	150						
0	MINMK	10					0	AMPS3	150						
9	CCL$2	-1	LTEN 0 (lb 1500				0	AMPS4	150						
GCT_TEMP (degF)							0	AMPS5	150						
							0	AMPS6	150						
							0	AMPS7	150						
							0	AMPS8	150						

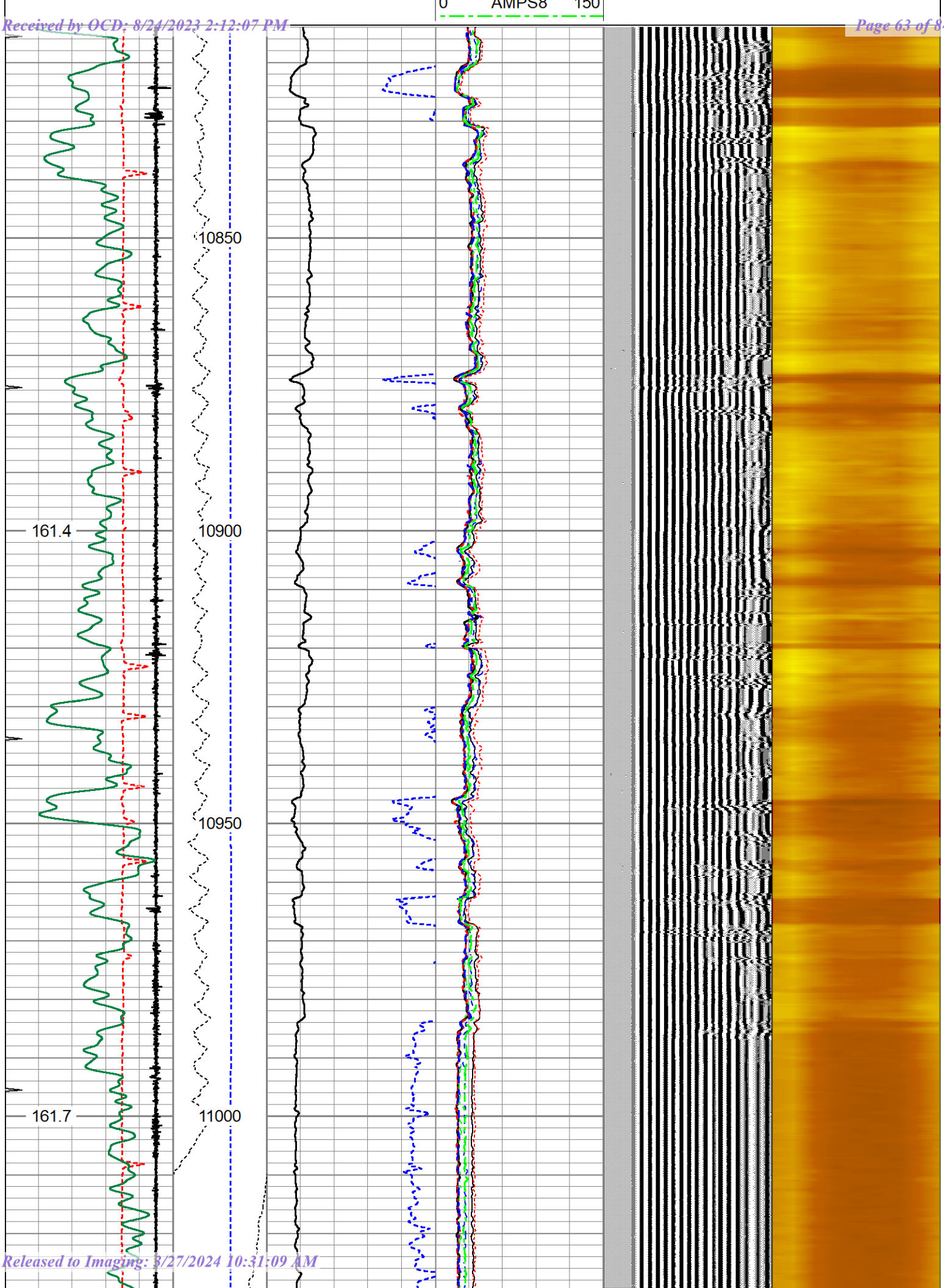
PATRIOT WELL SOLUTIONS

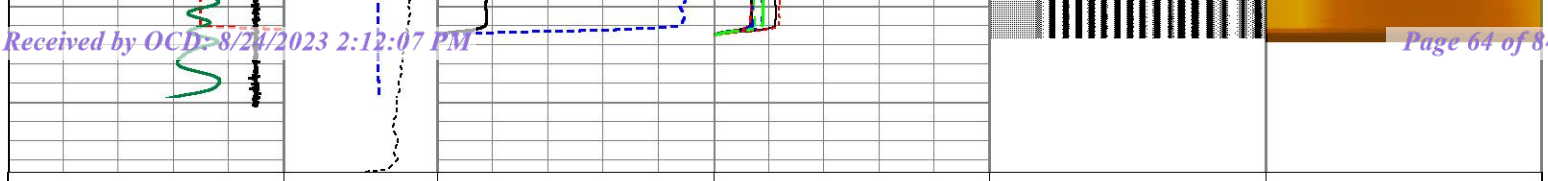
Repeat Pass

Logged With 0 PSI

Database File	eog audacious 19 fed com 510h.db
Dataset Pathname	510H/Repeat_Pass/pass1
Presentation Format	1patriot_radii_8sec_dccl
Dataset Creation	Wed Oct 20 09:37:25 2021
Charted by	Depth in Feet scaled 1:240

400	TT (usec)	200	GCT_TEMP (degF) 100 200	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	Cement Map	8
9	CCL	-1		0	AMPx10 (mV)	20	0	AMPS2	150						
0	GR (GAPI)	150					0	AMPS3	150						
0	MINMK	10	LTEN 0 (lb 1500				0	AMPS4	150						
GCT_TEMP (degF)							0	AMPS5	150						
							0	AMPS6	150						
							0	AMPS7	150						
							0	AMPS8	150						


0
AMPS8
150
10850
161.4
10900
10950
161.7
11000



400	TT (usec)	200	GCT_TEMP (degF) 100 200	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1 Cement Map 8
9	CCL	-1		0	AMPx10 (mV)	20	0	AMPS2	150				
0	GR (GAPI)	150					0	AMPS3	150				
0	MINMK	10	LTEN 0 (lb 1500				0	AMPS4	150				
GCT_TEMP (degF)							0	AMPS5	150				
							0	AMPS6	150				
							0	AMPS7	150				
							0	AMPS8	150				

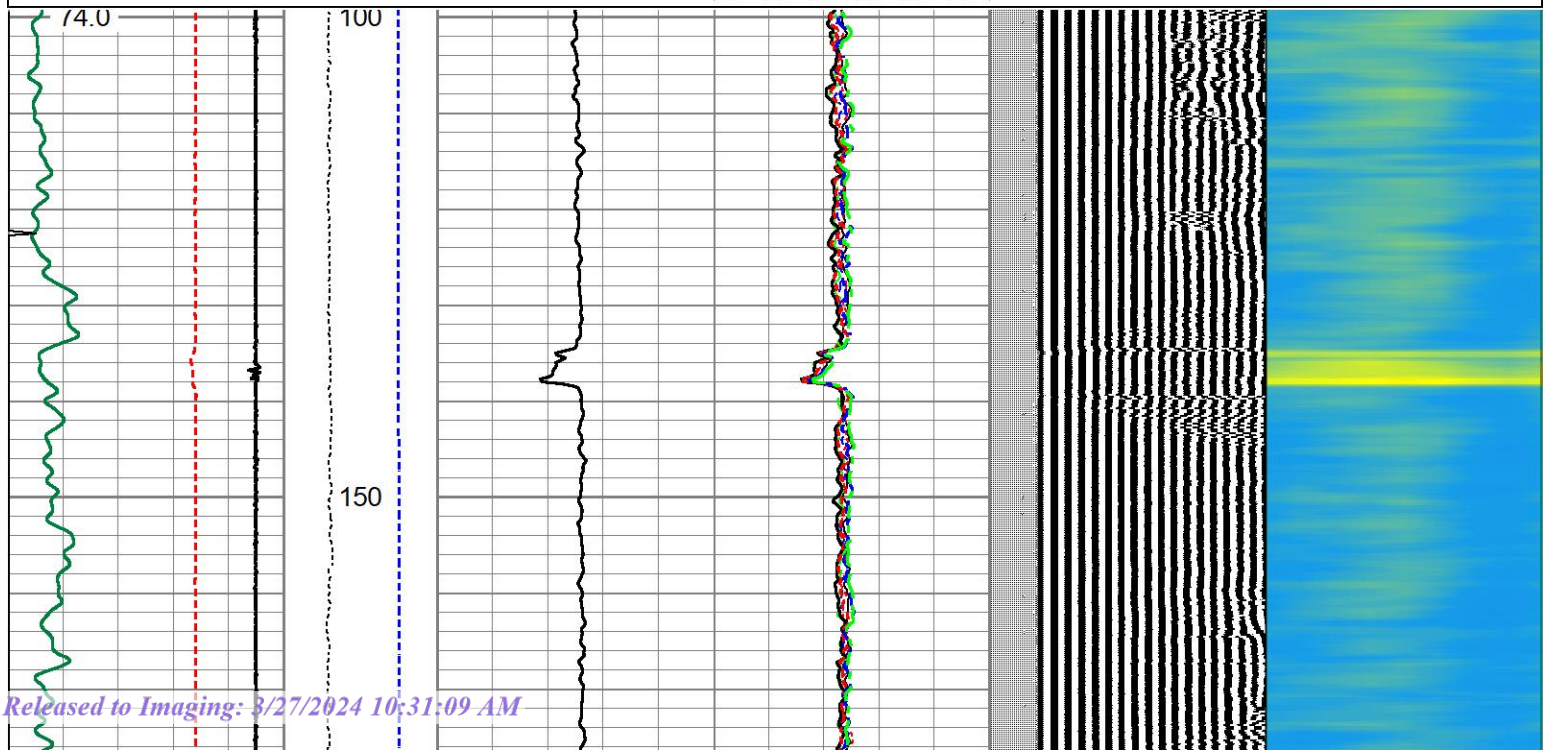
PATRIOT WELL SOLUTIONS

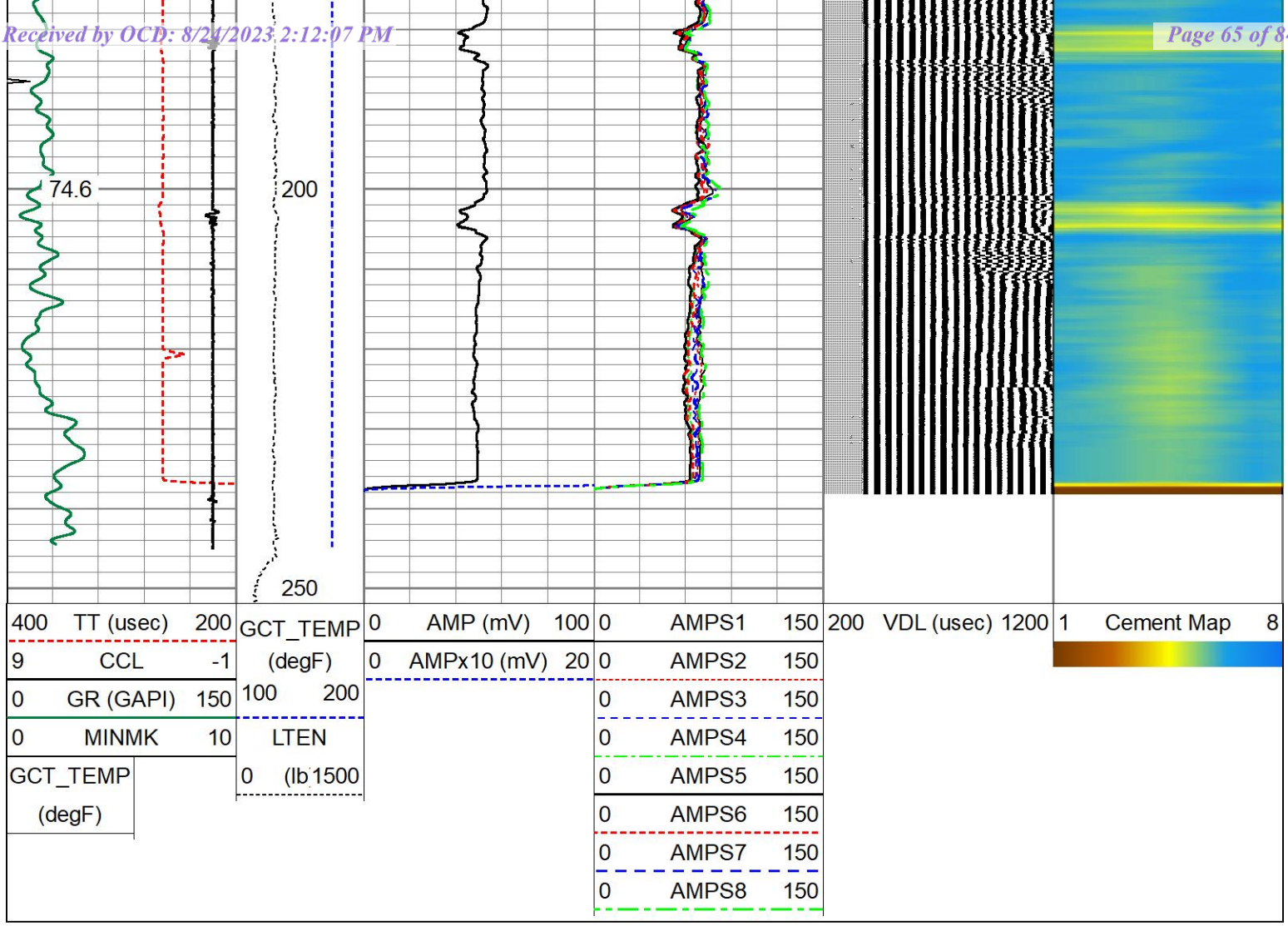
Free Pipe Pass

Logged With 0 PSI

Database File	eog audacious 19 fed com 510h.db
Dataset Pathname	510H/Free_Pipe_Pass/pass1
Presentation Format	1patriot_radii_8sec_dccl
Dataset Creation	Wed Oct 20 08:52:13 2021
Charted by	Depth in Feet scaled 1:240

400	TT (usec)	200	GCT_TEMP (degF) 100 200	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1 Cement Map 8
9	CCL	-1		0	AMPx10 (mV)	20	0	AMPS2	150				
0	GR (GAPI)	150					0	AMPS3	150				
0	MINMK	10	LTEN 0 (lb 1500				0	AMPS4	150				
GCT_TEMP (degF)							0	AMPS5	150				
							0	AMPS6	150				
							0	AMPS7	150				
							0	AMPS8	150				





Log Variables

DatabaseC:\ProgramData\Warrior\Data\eog audacious 19 fed com 510h.db
Dataset field/510H/Main_Pass/pass2/_vars_

Top - 2295.00 ft

BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL	MINATTN
in	degF	in	in	lb/ft	mV	mV	db/ft
0	0	0	0	0	0	0	0

PERFS	PPT	SRFTEMP	TDEPTH
	usec	degF	ft
No	0	0	0

2295.00 ft - 11033.00 ft

BOREID	BOTTEMP	CASEOD	CASEWGHT	MAXAMPL	MINAMPL	MINATTN
in	degF	in	lb/ft	mV	mV	db/ft
7.875	100	5.5	20	71.921	1	0.8

11033.00 ft - Bottom

BOREID	BOTTEMP	CASEOD	CASEWGHT	MAXAMPL	MINAMPL	MINATTN
in	degF	in	lb/ft	mV	mV	db/ft
0	0	0	0	0	0	0

Variable Description

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BOREID : Borehole I.D.
CASEWGHT : Casing Weight
PERFS : Perforation Flag

BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File	eog audacious 19 fed com 510h.db
Dataset Pathname	510H/Main_Pass/pass1
Dataset Creation	Wed Oct 20 09:54:24 2021

Gamma Ray Calibration Report

Serial Number:	GCT275_base	
Tool Model:	GCT275	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1704-50	
Tool Model:	RBTC3	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed Wed Oct 20 08:13:23 2021:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.692	1.000	71.921	104.739	-0.542
CAL	0.014	0.759				
5'	0.007	0.674	1.000	71.921	106.369	0.261
SUM						
S1	0.021	0.711	0.000	100.000	145.045	-3.114
S2	0.012	0.718	0.000	100.000	141.544	-1.669
S3	0.011	0.708	0.000	100.000	143.583	-1.623
S4	0.012	0.710	0.000	100.000	143.264	-1.761
S5	0.011	0.711	0.000	100.000	142.939	-1.572
S6	0.013	0.715	0.000	100.000	142.519	-1.834
S7	0.011	0.711	0.000	100.000	142.967	-1.611
S8	0.012	0.703	0.000	100.000	144.630	-1.743

Internal Reference Calibration, performed Wed Oct 20 08:15:23 2021:

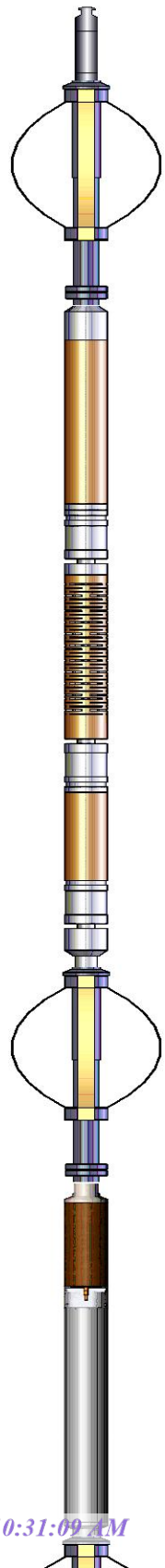
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.014	0.759	0.014	0.759	0.999	0.000

Air Zero Calibration, performed Wed Oct 20 08:13:47 2021:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.014	0.000	0.000

5'	0.007	0.000	0.000
SUM			
S1	0.022	0.000	-0.000
S2	0.012	0.000	0.000
S3	0.012	0.000	-0.000
S4	0.012	0.000	-0.000
S5	0.011	0.000	0.000
S6	0.012	0.000	0.000
S7	0.011	0.000	0.000
S8	0.012	0.000	-0.000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
ErrCt	23.44		STD-Standard (0000) Standard Cable Head	1.00	2.00	10.00
			Inline-2.75-1	3.00	2.75	20.00
WVFS8	14.77		RBT-RBTC3 (FW1704-50) RADIAL BOND TOOL	8.92	2.75	90.00
WVFS7	14.77					
WVFS6	14.77					
WVFS5	14.77					
WVFS4	14.77					
WVFS3	14.77					
WVFS2	14.77					
WVFS1	14.77					
WVFCAL	14.77					
WVF3FT	14.77					
WVF5FT	13.77					
			Inline-2.75 (0275)	2.88	2.75	20.00
CCL$2	6.79					
CCL$1	6.79					
GCT_Temp	6.04					
GR	5.29		GR-GCT275 (GCT275_base) Probe GR-CCL w/Temp	4.77	2.75	



			Inline-2.75	2.88	2.75	20.00
LOCTIM	0.00					
UTCTIM	0.00					

Dataset: eog audacious 19 fed com 510h.db: field/510H/Main_Pass/pass2
Total length: 23.44 ft
Total weight: 160.00 lb
O.D.: 2.75 in

PATRIOT WELL SOLUTIONS

Company	Eog Resources
Well	Audacious 19 Fed Com 510H
Field	Bone Spring
County	Lea
State	New Mexico

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Lea County, NM (NAD 83 NME)

Audacious 19 Fed Com #510H

Plan #2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

G T M

Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.14°

Magnetic Field
Strength: 47399.1nT
Dip Angle: 59.79°
Date: 9/18/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.14°
To convert a Magnetic Direction to a True Direction, Add 6.52° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

WELL DETAILS: #510H

3435.0
KB = 25' @ 3460.0usft

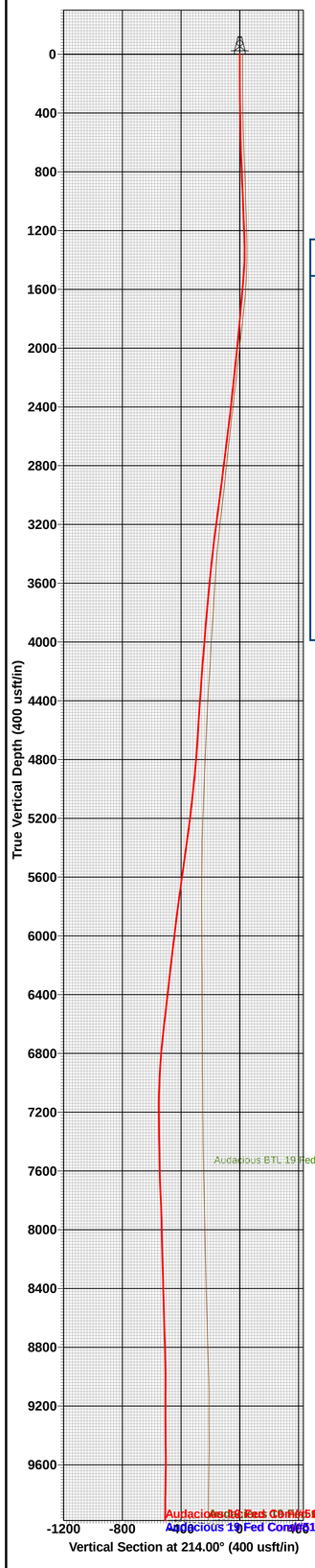
Northing	Easting	Latitude	Longitude
406479.00	766547.00	32° 6' 55.442 N	103° 36' 21.309 W

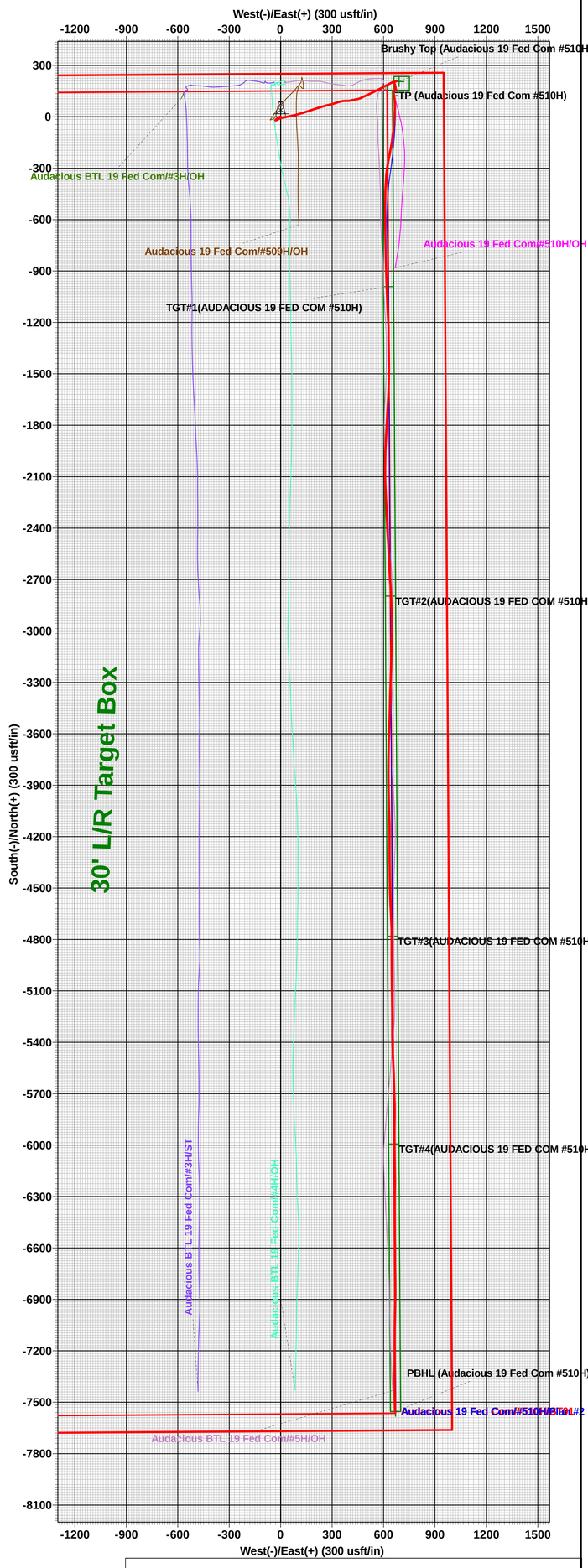
SECTION DETAILS

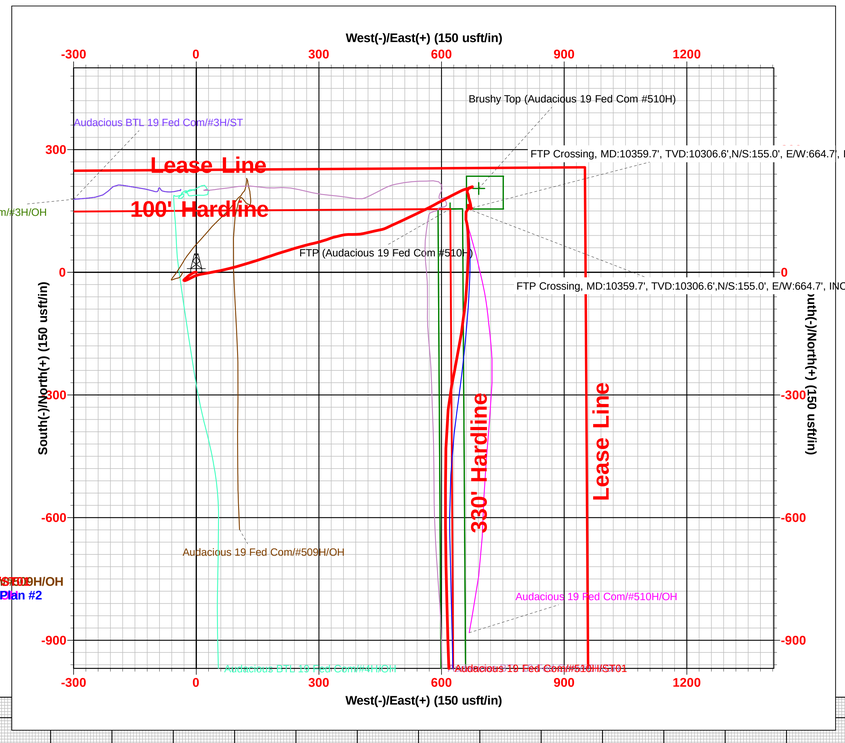
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
10600.0	18.26	165.75	10543.9	124.6	660.9	0.00	0.00	-65.7	
10630.0	16.46	165.75	10572.6	115.9	663.2	6.00	180.00	-56.8	
11237.6	89.94	188.00	10914.1	-334.1	638.4	12.30	23.11	389.2	
11548.0	89.85	178.69	10914.7	-643.6	620.4	3.00	-90.55	695.9	
11895.4	89.85	178.69	10915.6	-990.9	628.3	0.00	0.00	1042.5	TGT#1(AUDACIOUS 19 FED COM #510H)
11943.7	89.96	179.65	10915.7	-1039.2	629.0	2.00	83.89	1090.7	
13701.2	89.96	179.65	10917.0	-2796.7	639.7	0.00	0.00	2842.3	TGT#2(AUDACIOUS 19 FED COM #510H)
13703.6	90.00	179.64	10917.0	-2799.1	639.7	2.00	-18.59	2844.6	
15685.3	90.00	179.64	10917.0	-4780.7	652.3	0.00	0.00	4819.6	TGT#3(AUDACIOUS 19 FED COM #510H)
15702.5	90.35	179.64	10917.0	-4798.0	652.4	2.00	0.00	4836.8	
16897.7	90.35	179.64	10909.8	-5993.1	660.0	0.00	0.00	6028.0	TGT#4(AUDACIOUS 19 FED COM #510H)
16908.1	90.14	179.63	10909.7	-6003.5	660.1	2.00	-179.12	6038.3	
18458.7	90.14	179.63	10906.0	-7554.0	670.0	0.00	0.00	7583.7	PBHL (Audacious 19 Fed Com #510H)

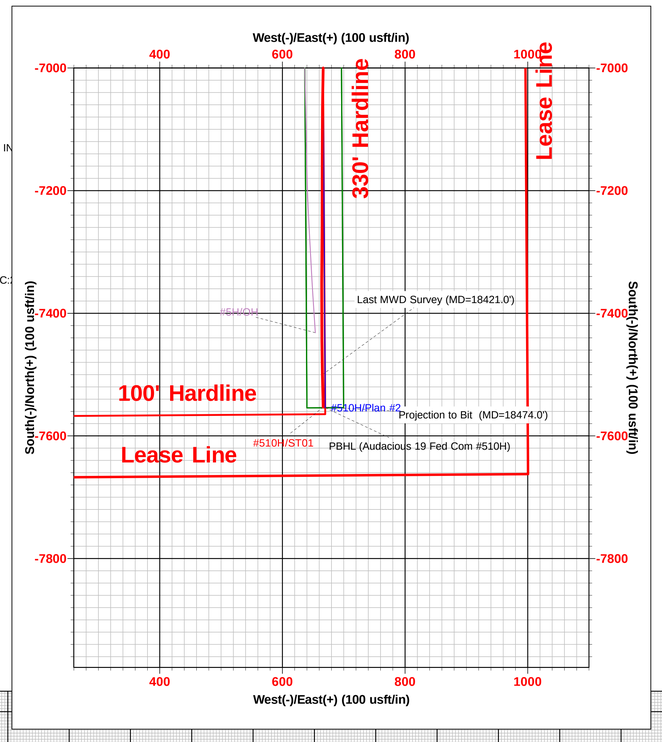
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

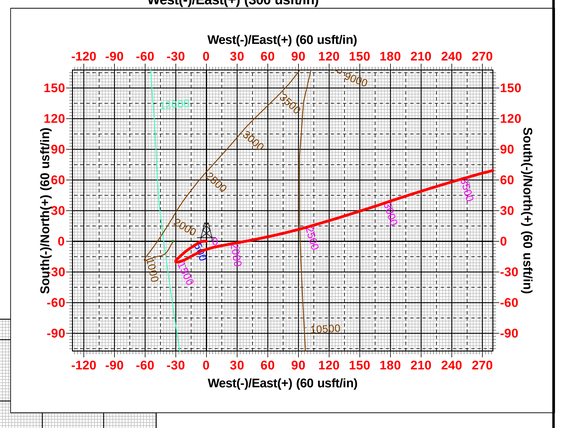
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Audacious 19 Fed Com #510H)	10906.0	-7554.0	670.0	398925.00	767217.00
TGT#4(AUDACIOUS 19 FED COM #510H)	10909.8	-5993.1	660.0	400485.90	767207.00
FTP (Audacious 19 Fed Com #510H)	10915.0	155.0	621.0	406634.00	767168.00
TGT#1(AUDACIOUS 19 FED COM #510H)	10915.6	-990.9	628.3	405488.10	767175.30
TGT#2(AUDACIOUS 19 FED COM #510H)	10917.0	-2796.7	639.7	403682.30	767186.70
TGT#3(AUDACIOUS 19 FED COM #510H)	10917.0	-4780.7	652.3	401698.30	767199.30

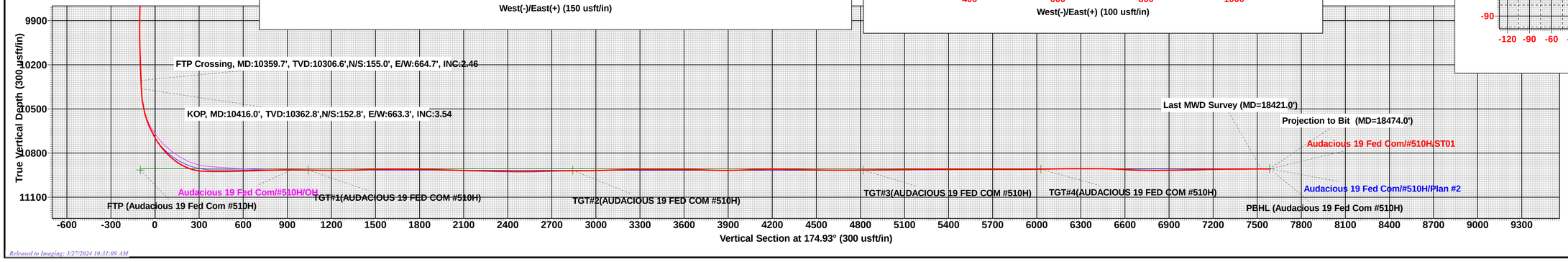


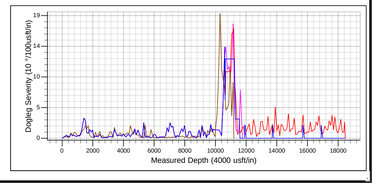












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eog resources

Midland

Lea County, NM (NAD 83 NME)
Audacious 19 Fed Com
#510H
ST01

Design: ST01

Midland PVA

04 October, 2021

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Project: Lea County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site: Audacious 19 Fed Com

Site Position:		**Northing:**	406,706.00 usft	**Latitude:**	32° 6' 57.772 N
From:	Map	**Easting:**	765,298.00 usft	**Longitude:**	103° 36' 35.813 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well: #510H

Well Position	**+N/-S**	0.0 usft	**Northing:**	406,479.00 usft	**Latitude:**	32° 6' 55.442 N
	+E/-W	0.0 usft	**Easting:**	766,547.00 usft	**Longitude:**	103° 36' 21.309 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,435.0 usft

Wellbore: ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	9/18/2021	6.52	59.79	47,399.12889832

Design: ST01

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	10,584.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	174.93

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey Program **Date** 10/4/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
187.0	10,584.0	Total MWD (OH)	EOG MWD+IFR1	MWD + IFR1
10,615.0	18,474.0	Total MWD (ST01)	EOG MWD+IFR1	MWD + IFR1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
187.0	0.62	279.87	187.0	0.2	-1.0	0.33	0.33	0.00	0.0	0.0
304.0	1.10	262.20	304.0	0.1	-2.7	0.46	0.41	-15.10	0.0	0.0
393.0	1.23	259.04	393.0	-0.2	-4.5	0.16	0.15	-3.55	0.0	0.0
483.0	1.10	251.92	482.9	-0.6	-6.3	0.22	-0.14	-7.91	0.0	0.0
570.0	1.58	237.77	569.9	-1.5	-8.1	0.67	0.55	-16.26	0.0	0.0
668.0	2.02	233.64	667.9	-3.3	-10.6	0.47	0.45	-4.21	0.0	0.0
763.0	2.42	239.26	762.8	-5.3	-13.7	0.48	0.42	5.92	0.0	0.0
858.0	2.72	235.40	857.7	-7.6	-17.3	0.36	0.32	-4.06	0.0	0.0
953.0	2.55	232.15	952.6	-10.2	-20.8	0.24	-0.18	-3.42	0.0	0.0
1,035.0	2.50	223.80	1,034.5	-12.6	-23.5	0.45	-0.06	-10.18	0.0	0.0
1,130.0	2.50	231.38	1,129.4	-15.4	-26.5	0.35	0.00	7.98	0.0	0.0
1,225.0	2.02	221.71	1,224.4	-17.9	-29.3	0.64	-0.51	-10.18	0.0	0.0
1,320.0	1.05	163.00	1,319.3	-20.0	-30.1	1.82	-1.02	-61.80	0.0	0.0
1,415.0	2.90	79.85	1,414.3	-20.4	-27.5	3.12	1.95	-87.53	0.0	0.0
1,510.0	5.32	63.68	1,509.0	-18.0	-21.2	2.80	2.55	-17.02	0.0	0.0
1,604.0	6.06	59.99	1,602.6	-13.6	-13.0	0.88	0.79	-3.93	0.0	0.0
1,699.0	6.11	66.85	1,697.0	-9.1	-4.0	0.77	0.05	7.22	0.0	0.0
1,794.0	6.46	78.27	1,791.5	-6.0	5.9	1.36	0.37	12.02	0.0	0.0
1,889.0	7.38	78.71	1,885.8	-3.8	17.1	0.97	0.97	0.46	0.0	0.0
1,984.0	8.57	80.03	1,979.9	-1.3	30.1	1.27	1.25	1.39	0.0	0.0

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,079.0	8.53	79.41	2,073.8	1.2	44.0	0.11	-0.04	-0.65	0.0	0.0
2,174.0	8.26	77.92	2,167.8	3.9	57.5	0.36	-0.28	-1.57	0.0	0.0
2,269.0	8.09	76.69	2,261.8	6.9	70.7	0.26	-0.18	-1.29	0.0	0.0
2,364.0	8.35	76.16	2,355.8	10.1	83.9	0.29	0.27	-0.56	0.0	0.0
2,459.0	8.88	74.49	2,449.8	13.7	97.7	0.62	0.56	-1.76	0.0	0.0
2,554.0	8.96	73.26	2,543.6	17.8	111.8	0.22	0.08	-1.29	0.0	0.0
2,649.0	9.01	73.17	2,637.5	22.1	126.0	0.05	0.05	-0.09	0.0	0.0
2,743.0	9.10	72.47	2,730.3	26.4	140.2	0.15	0.10	-0.74	0.0	0.0
2,838.0	9.01	72.29	2,824.1	30.9	154.4	0.10	-0.09	-0.19	0.0	0.0
2,933.0	9.10	71.77	2,917.9	35.6	168.7	0.13	0.09	-0.55	0.0	0.0
3,029.0	9.27	71.59	3,012.7	40.4	183.2	0.18	0.18	-0.19	0.0	0.0
3,124.0	9.58	71.94	3,106.4	45.2	198.0	0.33	0.33	0.37	0.0	0.0
3,219.0	9.67	72.82	3,200.1	50.1	213.1	0.18	0.09	0.93	0.0	0.0
3,314.0	9.36	73.44	3,293.8	54.6	228.1	0.34	-0.33	0.65	0.0	0.0
3,408.0	8.09	72.91	3,386.7	58.7	241.8	1.35	-1.35	-0.56	0.0	0.0
3,598.0	7.51	75.19	3,574.9	65.8	266.6	0.35	-0.31	1.20	0.0	0.0
3,693.0	7.12	76.43	3,669.1	68.8	278.3	0.44	-0.41	1.31	0.0	0.0
3,788.0	6.68	77.04	3,763.5	71.4	289.4	0.47	-0.46	0.64	0.0	0.0
3,883.0	6.59	74.67	3,857.8	74.1	300.0	0.30	-0.09	-2.49	0.0	0.0
3,978.0	5.93	74.14	3,952.2	76.9	310.0	0.70	-0.69	-0.56	0.0	0.0
4,072.0	5.76	70.71	4,045.8	79.8	319.2	0.41	-0.18	-3.65	0.0	0.0
4,167.0	5.58	69.75	4,140.3	82.9	328.0	0.21	-0.19	-1.01	0.0	0.0
4,262.0	5.23	73.52	4,234.9	85.8	336.5	0.52	-0.37	3.97	0.0	0.0
4,356.0	5.54	78.01	4,328.5	87.9	345.0	0.56	0.33	4.78	0.0	0.0
4,451.0	5.63	75.81	4,423.0	90.0	354.0	0.24	0.09	-2.32	0.0	0.0
4,546.0	5.36	81.70	4,517.6	91.8	362.9	0.66	-0.28	6.20	0.0	0.0
4,641.0	5.49	89.43	4,612.1	92.5	371.9	0.78	0.14	8.14	0.0	0.0

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,736.0	6.86	89.78	4,706.6	92.6	382.1	1.44	1.44	0.37	0.0	0.0
4,818.0	7.29	88.73	4,788.0	92.7	392.2	0.55	0.52	-1.28	0.0	0.0
4,947.0	8.09	77.88	4,915.8	94.8	409.2	1.28	0.62	-8.41	0.0	0.0
5,042.0	8.61	76.56	5,009.8	97.8	422.7	0.58	0.55	-1.39	0.0	0.0
5,136.0	8.83	78.23	5,102.7	100.9	436.6	0.36	0.23	1.78	0.0	0.0
5,231.0	8.92	78.85	5,196.6	103.9	451.0	0.14	0.09	0.65	0.0	0.0
5,326.0	9.36	64.70	5,290.4	108.6	465.2	2.40	0.46	-14.89	0.0	0.0
5,421.0	9.49	64.79	5,384.1	115.2	479.2	0.14	0.14	0.09	0.0	0.0
5,516.0	9.27	65.93	5,477.8	121.7	493.3	0.30	-0.23	1.20	0.0	0.0
5,611.0	8.96	65.05	5,571.6	127.9	507.0	0.36	-0.33	-0.93	0.0	0.0
5,706.0	8.88	64.52	5,665.5	134.2	520.3	0.12	-0.08	-0.56	0.0	0.0
5,801.0	8.79	64.17	5,759.4	140.5	533.5	0.11	-0.09	-0.37	0.0	0.0
5,896.0	8.61	63.99	5,853.3	146.8	546.4	0.19	-0.19	-0.19	0.0	0.0
5,991.0	8.00	63.82	5,947.3	152.8	558.7	0.64	-0.64	-0.18	0.0	0.0
6,086.0	7.51	62.32	6,041.4	158.6	570.2	0.56	-0.52	-1.58	0.0	0.0
6,181.0	7.47	62.24	6,135.6	164.4	581.1	0.04	-0.04	-0.08	0.0	0.0
6,276.0	7.47	61.62	6,229.8	170.2	592.0	0.08	0.00	-0.65	0.0	0.0
6,371.0	7.34	63.03	6,324.0	175.9	602.9	0.24	-0.14	1.48	0.0	0.0
6,466.0	7.34	61.71	6,418.2	181.5	613.6	0.18	0.00	-1.39	0.0	0.0
6,561.0	7.56	62.41	6,512.4	187.3	624.5	0.25	0.23	0.74	0.0	0.0
6,656.0	7.51	63.12	6,606.6	193.0	635.6	0.11	-0.05	0.75	0.0	0.0
6,751.0	7.08	63.38	6,700.8	198.4	646.3	0.45	-0.45	0.27	0.0	0.0
6,846.0	5.80	70.85	6,795.2	202.6	656.1	1.61	-1.35	7.86	0.0	0.0
6,941.0	5.19	78.50	6,889.8	205.0	664.9	1.00	-0.64	8.05	0.0	0.0
7,035.0	3.03	69.27	6,983.5	206.8	671.4	2.40	-2.30	-9.82	0.0	0.0
7,130.0	1.49	52.66	7,078.5	208.4	674.7	1.75	-1.62	-17.48	0.0	0.0
7,225.0	0.40	282.84	7,173.5	209.2	675.3	1.87	-1.15	-136.65	0.0	0.0

Released to Imaging: 3/27/2024 10:31:09 AM

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,320.0	0.88	255.24	7,268.4	209.1	674.3	0.59	0.51	-29.05	0.0	0.0
7,415.0	0.88	249.53	7,363.4	208.7	672.9	0.09	0.00	-6.01	0.0	0.0
7,510.0	1.27	255.16	7,458.4	208.2	671.2	0.42	0.41	5.93	0.0	0.0
7,605.0	1.14	247.33	7,553.4	207.5	669.3	0.22	-0.14	-8.24	0.0	0.0
7,700.0	1.89	231.51	7,648.4	206.2	667.2	0.90	0.79	-16.65	0.0	0.0
7,795.0	3.03	212.27	7,743.3	203.1	664.7	1.47	1.20	-20.25	0.0	0.0
7,890.0	2.72	193.72	7,838.2	198.8	662.8	1.03	-0.33	-19.53	0.0	0.0
7,985.0	1.93	150.13	7,933.1	195.2	663.1	1.97	-0.83	-45.88	0.0	0.0
8,080.0	2.02	159.79	8,028.0	192.2	664.4	0.36	0.09	10.17	0.0	0.0
8,175.0	2.29	158.65	8,123.0	188.9	665.7	0.29	0.28	-1.20	0.0	0.0
8,269.0	2.46	182.82	8,216.9	185.1	666.3	1.07	0.18	25.71	0.0	0.0
8,364.0	2.37	159.35	8,311.8	181.3	666.9	1.04	-0.09	-24.71	0.0	0.0
8,459.0	2.11	164.63	8,406.7	177.7	668.0	0.35	-0.27	5.56	0.0	0.0
8,554.0	2.42	165.68	8,501.7	174.1	669.0	0.33	0.33	1.11	0.0	0.0
8,744.0	2.46	167.79	8,691.5	166.2	670.8	0.05	0.02	1.11	0.0	0.0
8,839.0	2.64	174.30	8,786.4	162.1	671.5	0.36	0.19	6.85	0.0	0.0
8,934.0	1.49	163.49	8,881.3	158.7	672.1	1.27	-1.21	-11.38	0.0	0.0
9,029.0	1.41	166.39	8,976.3	156.4	672.7	0.11	-0.08	3.05	0.0	0.0
9,124.0	0.66	44.04	9,071.3	155.6	673.3	1.95	-0.79	-128.79	0.0	0.0
9,219.0	0.57	11.70	9,166.3	156.5	673.8	0.37	-0.09	-34.04	0.0	0.0
9,314.0	0.48	242.94	9,261.3	156.8	673.6	1.00	-0.09	-135.54	0.0	0.0
9,409.0	0.44	233.18	9,356.3	156.4	672.9	0.09	-0.04	-10.27	0.0	0.0
9,504.0	0.97	239.69	9,451.3	155.8	671.9	0.56	0.56	6.85	0.0	0.0
9,599.0	0.57	269.04	9,546.3	155.3	670.8	0.58	-0.42	30.89	0.0	0.0
9,694.0	2.37	317.03	9,641.2	156.8	669.0	2.14	1.89	50.52	0.0	0.0
9,789.0	2.50	339.09	9,736.1	160.1	666.9	0.99	0.14	23.22	0.0	0.0
9,884.0	1.23	325.38	9,831.1	162.9	665.6	1.41	-1.34	-14.43	0.0	0.0

Released to Imaging: 3/27/2024 10:31:09 AM

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,979.0	0.40	39.12	9,926.1	164.0	665.2	1.24	-0.87	77.62	0.0	0.0
10,074.0	1.19	126.22	10,021.1	163.7	666.2	1.30	0.83	91.68	0.0	0.0
10,168.0	1.45	180.01	10,115.1	161.9	667.0	1.29	0.28	57.22	0.0	0.0
10,263.0	2.46	196.62	10,210.0	158.8	666.4	1.21	1.06	17.48	0.0	0.0
10,358.0	2.46	210.95	10,304.9	155.1	664.8	0.65	0.00	15.08	0.0	0.0
10,359.7	2.46	211.07	10,306.6	155.0	664.7	0.39	0.24	7.13	0.0	0.0
FTP Crossing, MD:10359.7', TVD:10306.6',N/S:155.0', E/W:664.7', INC:2.46										
10,395.0	2.55	213.50	10,341.9	153.7	663.9	0.39	0.24	6.88	0.0	0.0
10,416.0	3.54	212.06	10,362.8	152.8	663.3	4.73	4.72	-6.84	0.0	0.0
KOP, MD:10416.0', TVD:10362.8',N/S:152.8', E/W:663.3', INC:3.54										
10,489.0	6.99	210.24	10,435.5	147.0	659.9	4.73	4.73	-2.50	0.0	0.0
10,584.0	16.04	167.27	10,528.7	129.1	659.8	12.52	9.53	-45.23	0.0	0.0
10,615.0	18.85	166.74	10,558.2	120.1	661.9	9.08	9.06	-1.71	0.0	-0.1
10,647.0	18.94	173.42	10,588.5	109.9	663.7	6.76	0.28	20.87	-1.0	-0.7
10,679.0	22.19	175.44	10,618.5	98.7	664.8	10.39	10.16	6.31	-1.2	-1.4
10,774.0	31.68	180.45	10,703.1	55.8	666.0	10.26	9.99	5.27	0.0	-3.4
10,869.0	41.35	183.53	10,779.3	-0.6	663.9	10.36	10.18	3.24	4.3	-5.6
10,964.0	51.33	184.76	10,844.8	-69.1	658.9	10.55	10.51	1.29	11.4	-7.6
11,058.0	66.01	189.33	10,893.6	-148.5	648.8	16.15	15.62	4.86	16.4	-11.7
11,153.0	81.65	191.26	10,920.0	-238.0	632.5	16.58	16.46	2.03	15.1	-18.4
11,192.0	88.29	191.00	10,923.4	-276.1	625.0	17.04	17.03	-0.67	12.5	-21.1
11,253.0	89.21	185.72	10,924.7	-336.4	616.1	8.78	1.51	-8.66	10.6	-21.8
11,348.0	91.10	180.89	10,924.5	-431.2	610.7	5.46	1.99	-5.08	10.2	-16.6
11,443.0	91.10	180.36	10,922.7	-526.2	609.6	0.56	0.00	-0.56	8.2	-11.7
11,538.0	91.58	179.48	10,920.4	-621.1	609.8	1.05	0.51	-0.93	5.8	-10.2
11,633.0	92.24	178.96	10,917.3	-716.1	611.0	0.88	0.69	-0.55	2.4	-11.0
11,727.0	91.01	178.43	10,914.6	-810.0	613.2	1.42	-1.31	-0.56	-0.5	-11.0

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EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,822.0	89.30	178.43	10,914.3	-905.0	615.8	1.80	-1.80	0.00	-1.0	-10.5
11,917.0	89.08	177.99	10,915.7	-999.9	618.8	0.52	-0.23	-0.46	0.1	-9.7
12,012.0	89.08	176.93	10,917.2	-1,094.8	623.0	1.12	0.00	-1.12	1.5	-6.4
12,106.0	90.44	177.72	10,917.6	-1,188.7	627.4	1.67	1.45	0.84	1.8	-2.6
12,201.0	91.45	179.57	10,916.0	-1,283.7	629.6	2.22	1.06	1.95	0.2	-0.9
12,296.0	91.67	179.04	10,913.5	-1,378.6	630.8	0.60	0.23	-0.56	-2.5	-0.3
12,390.0	91.80	179.66	10,910.6	-1,472.6	631.8	0.67	0.14	0.66	-5.4	0.2
12,485.0	90.22	181.94	10,908.9	-1,567.5	630.5	2.92	-1.66	2.40	-7.1	-1.7
12,580.0	89.12	183.26	10,909.5	-1,662.4	626.2	1.81	-1.16	1.39	-6.7	-6.6
12,675.0	89.34	183.17	10,910.8	-1,757.3	620.9	0.25	0.23	-0.09	-5.5	-12.5
12,770.0	88.59	183.09	10,912.5	-1,852.1	615.7	0.79	-0.79	-0.08	-3.9	-18.3
12,864.0	88.55	182.47	10,914.8	-1,946.0	611.1	0.66	-0.04	-0.66	-1.6	-23.4
12,959.0	87.71	180.19	10,917.9	-2,040.9	608.9	2.56	-0.88	-2.40	1.5	-26.2
13,054.0	89.17	178.16	10,920.5	-2,135.8	610.3	2.63	1.54	-2.14	4.0	-25.4
13,149.0	88.24	177.29	10,922.7	-2,230.7	614.0	1.34	-0.98	-0.92	6.1	-22.2
13,244.0	89.38	177.46	10,924.6	-2,325.6	618.4	1.21	1.20	0.18	8.0	-18.4
13,339.0	88.81	176.32	10,926.1	-2,420.5	623.5	1.34	-0.60	-1.20	9.4	-13.8
13,434.0	91.76	177.55	10,925.7	-2,515.3	628.6	3.36	3.11	1.29	8.8	-9.4
13,529.0	91.36	177.20	10,923.1	-2,610.2	633.0	0.56	-0.42	-0.37	6.2	-5.6
13,623.0	90.70	176.06	10,921.4	-2,704.0	638.5	1.40	-0.70	-1.21	4.4	-0.6
13,718.0	90.48	178.08	10,920.4	-2,798.9	643.4	2.14	-0.23	2.13	3.4	3.6
13,813.0	90.09	177.37	10,919.9	-2,893.8	647.1	0.85	-0.41	-0.75	2.9	6.8
13,908.0	91.85	181.59	10,918.3	-2,988.7	648.0	4.81	1.85	4.44	1.3	7.1
14,003.0	92.20	180.54	10,915.0	-3,083.7	646.2	1.16	0.37	-1.11	-2.1	4.7
14,098.0	90.62	181.68	10,912.6	-3,178.6	644.4	2.05	-1.66	1.20	-4.4	2.3
14,193.0	90.79	181.33	10,911.5	-3,273.6	641.9	0.41	0.18	-0.37	-5.6	-0.8
14,288.0	88.81	181.85	10,911.8	-3,368.5	639.3	2.15	-2.08	0.55	-5.2	-4.1

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EOG Resources

Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,382.0	90.53	181.24	10,912.3	-3,462.5	636.7	1.94	1.83	-0.65	-4.7	-7.2
14,477.0	89.74	182.03	10,912.1	-3,557.4	634.0	1.18	-0.83	0.83	-4.9	-10.5
14,572.0	88.73	181.50	10,913.4	-3,652.4	631.1	1.20	-1.06	-0.56	-3.7	-14.0
14,667.0	87.41	180.71	10,916.6	-3,747.3	629.3	1.62	-1.39	-0.83	-0.5	-16.5
14,762.0	90.88	179.83	10,918.0	-3,842.3	628.8	3.77	3.65	-0.93	1.0	-17.5
14,857.0	91.45	179.04	10,916.1	-3,937.3	629.7	1.03	0.60	-0.83	-1.0	-17.2
14,952.0	92.55	178.25	10,912.7	-4,032.2	632.0	1.43	1.16	-0.83	-4.3	-15.6
15,046.0	91.23	178.69	10,909.6	-4,126.1	634.5	1.48	-1.40	0.47	-7.4	-13.6
15,141.0	88.68	180.19	10,909.7	-4,221.1	635.4	3.11	-2.68	1.58	-7.3	-13.3
15,236.0	88.37	179.75	10,912.2	-4,316.0	635.5	0.57	-0.33	-0.46	-4.9	-13.9
15,331.0	88.90	179.48	10,914.4	-4,411.0	636.1	0.63	0.56	-0.28	-2.6	-13.8
15,426.0	89.38	178.60	10,915.9	-4,506.0	637.7	1.06	0.51	-0.93	-1.2	-12.9
15,521.0	89.96	177.72	10,916.4	-4,600.9	640.8	1.11	0.61	-0.93	-0.6	-10.4
15,616.0	90.44	176.93	10,916.1	-4,695.8	645.2	0.97	0.51	-0.83	-1.0	-6.6
15,711.0	90.57	180.36	10,915.2	-4,790.8	647.4	3.61	0.14	3.61	-1.8	-4.9
15,806.0	90.83	179.75	10,914.1	-4,885.8	647.3	0.70	0.27	-0.64	-2.4	-5.6
15,901.0	90.09	179.83	10,913.3	-4,980.8	647.7	0.78	-0.78	0.08	-2.6	-5.9
15,995.0	90.70	179.13	10,912.7	-5,074.8	648.5	0.99	0.65	-0.74	-2.7	-5.6
16,090.0	91.54	178.87	10,910.8	-5,169.7	650.2	0.93	0.88	-0.27	-3.9	-4.6
16,185.0	89.52	180.19	10,909.9	-5,264.7	651.0	2.54	-2.13	1.39	-4.2	-4.4
16,280.0	89.69	179.22	10,910.6	-5,359.7	651.5	1.04	0.18	-1.02	-3.0	-4.5
16,375.0	90.09	178.08	10,910.8	-5,454.7	653.7	1.27	0.42	-1.20	-2.3	-2.9
16,470.0	89.65	176.93	10,911.0	-5,549.6	657.8	1.30	-0.46	-1.21	-1.5	0.7
16,564.0	90.75	179.04	10,910.6	-5,643.5	661.1	2.53	1.17	2.24	-1.2	3.4
16,659.0	89.30	177.81	10,910.6	-5,738.5	663.8	2.00	-1.53	-1.29	-0.7	5.4
16,754.0	90.13	180.98	10,911.1	-5,833.5	664.8	3.45	0.87	3.34	0.3	5.8
16,849.0	91.05	180.10	10,910.1	-5,928.5	663.9	1.34	0.97	-0.93	-0.1	4.3

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Midland PVA

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Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,943.0	90.79	179.57	10,908.6	-6,022.4	664.1	0.63	-0.28	-0.56	-1.1	3.9
17,038.0	90.92	178.78	10,907.2	-6,117.4	665.5	0.84	0.14	-0.83	-2.3	4.7
17,133.0	90.62	180.54	10,905.9	-6,212.4	666.1	1.88	-0.32	1.85	-3.3	4.7
17,228.0	89.30	180.36	10,906.0	-6,307.4	665.3	1.40	-1.39	-0.19	-3.0	3.3
17,323.0	90.00	179.40	10,906.5	-6,402.4	665.5	1.25	0.74	-1.01	-2.2	2.9
17,418.0	87.63	180.36	10,908.5	-6,497.4	665.7	2.69	-2.49	1.01	0.0	2.5
17,513.0	86.18	179.13	10,913.6	-6,592.2	666.1	2.00	-1.53	-1.29	5.3	2.3
17,607.0	89.47	179.83	10,917.2	-6,686.1	667.0	3.58	3.50	0.74	9.1	2.6
17,702.0	89.56	178.60	10,918.0	-6,781.1	668.3	1.30	0.09	-1.29	10.1	3.2
17,797.0	91.67	180.89	10,917.0	-6,876.1	668.7	3.28	2.22	2.41	9.4	3.1
17,892.0	90.62	181.24	10,915.1	-6,971.1	667.0	1.17	-1.11	0.37	7.7	0.7
17,987.0	91.10	180.63	10,913.7	-7,066.1	665.4	0.82	0.51	-0.64	6.5	-1.5
18,082.0	92.37	179.92	10,910.8	-7,161.0	664.9	1.53	1.34	-0.75	3.8	-2.5
18,177.0	89.65	180.45	10,909.1	-7,256.0	664.6	2.92	-2.86	0.56	2.4	-3.5
18,272.0	90.53	180.27	10,909.0	-7,351.0	664.0	0.95	0.93	-0.19	2.5	-4.7
18,366.0	90.70	179.40	10,908.0	-7,445.0	664.3	0.94	0.18	-0.93	1.7	-5.0
18,421.0	89.56	178.60	10,907.8	-7,500.0	665.3	2.53	-2.07	-1.45	1.7	-4.4
Last MWD Survey (MD=18421.0')										
18,474.0	89.56	178.60	10,908.2	-7,552.9	666.6	0.00	0.00	0.00	2.2	-3.4
Projection to Bit (MD=18474.0')										

Released to Imaging: 3/27/2024 10:31:09 AM

Received by OCD: 8/24/2023 2:12:07 PM

EOG Resources

Midland PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #510H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3460.0usft
Site:	Audacious 19 Fed Com	**MD Reference:**	KB = 25' @ 3460.0usft
Well:	#510H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	PEDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,359.7	10,306.6	155.0	664.7	FTP Crossing, MD:10359.7', TVD:10306.6',N/S:155.0', E/W:664.7', INC:2.46
10,416.0	10,362.8	152.8	663.3	KOP, MD:10416.0', TVD:10362.8',N/S:152.8', E/W:663.3', INC:3.54
18,421.0	10,907.8	-7,500.0	665.3	Last MWD Survey (MD=18421.0')
18,474.0	10,908.2	-7,552.9	666.6	Projection to Bit (MD=18474.0')

Checked By: _____ Approved By: _____ Date: _____

I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
KAY MADDOX 01/18/2022

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District II
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ **AMENDED REPORT**

AS-COMPLETED

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025- 48991	97903	WC025 G08 S253235G; LOWER BONE SPRING

[4]Property Code	[5]Property Name	[6]Well Number
330995	AUDACIOUS 19 FED COM	510H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3435'

[10]Surface Location

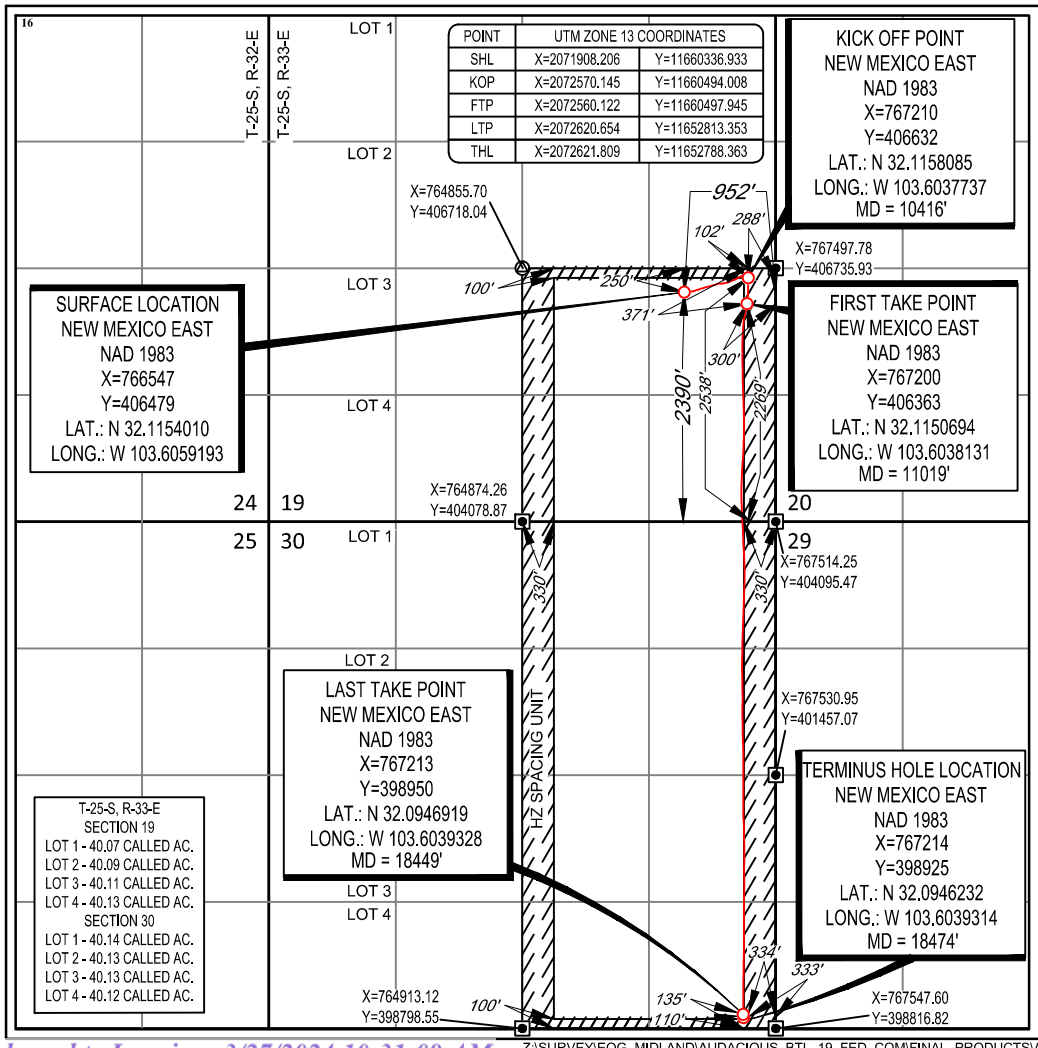
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	25-S	33-E	-	2390'	SOUTH	952'	EAST	LEA

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	30	25-S	33-E	-	110'	SOUTH	333'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
480.00			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox — Signature
01/20/2022 — Date

KAY MADDOX
Printed Name

kay_maddox@eogresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

08/07/2021
Date of Survey
Signature and Seal of Professional Surveyor

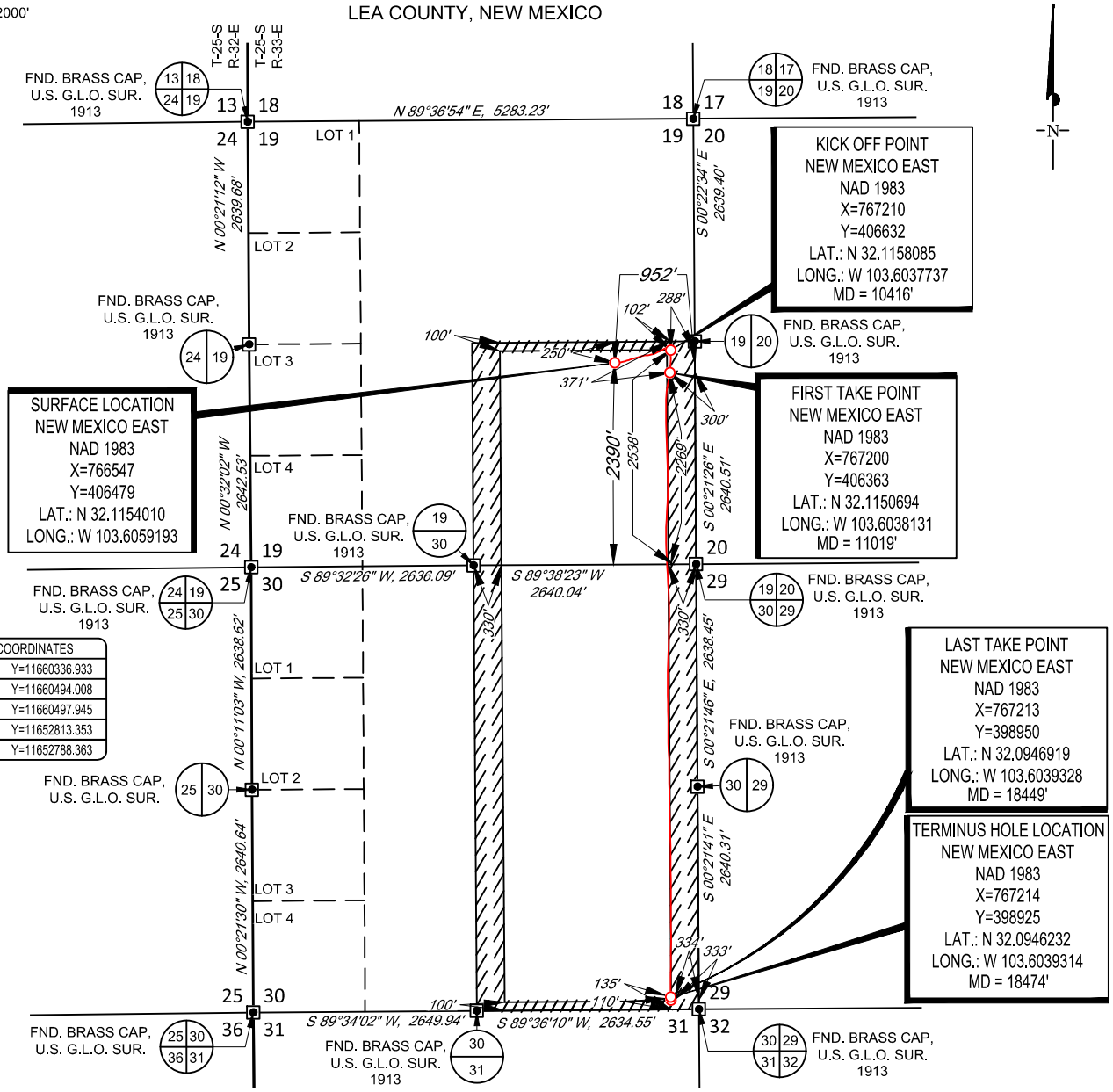
RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

Z:\SURVEY\EOG_MIDLAND\AUDACIOUS_BTL_19_FED_COM\FINAL_PRODUCTS\AD_AUDACIOUS_19_FED_COM_510H.DWG 1/11/2022 9:38:13 AM eochoa

SCALE: 1" = 2000'
0' 1000' 2000'

SECTION 19, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2071908.206	Y=11660336.933
KOP	X=2072570.145	Y=11660494.008
FTP	X=2072560.122	Y=11660497.945
LTP	X=2072620.654	Y=11652813.353
THL	X=2072621.809	Y=11652788.363

T-25-S, R-33-E
SECTION 19
LOT 1 - 40.07 CALLED AC.
LOT 2 - 40.09 CALLED AC.
LOT 3 - 40.11 CALLED AC.
LOT 4 - 40.13 CALLED AC.
SECTION 30
LOT 1 - 40.14 CALLED AC.
LOT 2 - 40.13 CALLED AC.
LOT 3 - 40.13 CALLED AC.
LOT 4 - 40.12 CALLED AC.

LEASE NAME & WELL NO.: AUDACIOUS 19 FED COM 510H
SECTION 19 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3435'
DESCRIPTION 2390' FSL & 952' FEL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

eog resources, inc.

Ramon A. Dominguez, P.S. No. 24508
January 10, 2022

AUDACIOUS 19 FED COM 510H AS-DRILLED	REVISION:
DATE: 01/10/22	
FILE: AD_AUDACIOUS_19_FED_COM_510H	
DRAWN BY: MML	
SHEET : 2 OF 2	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

Z:\SURVEY\EOG_MIDLAND\AUDACIOUS_BTL_19_FED_COM\FINAL_PRODUCTS\AD_AUDACIOUS_19_FED_COM_510H.DWG 1/11/2022 9:38:13 AM eochoa

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 257425

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 257425
	Action Type: [C-105] Well (Re)Completion (C-105)

ACKNOWLEDGMENTS

☑	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☑	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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State of New Mexico
Energy, Minerals and Natural Resources
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CONDITIONS

Action 257425

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 257425
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	3/27/2024