Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-51865
5. Indicate Type of Lease STATE ☐ FEE ■
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: SALT CREEK AGI
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ■ ACID GAS INJECTION
8. Well Number: 3
2. Name of Operator: Northwind Midstream Partners, LLC
9. OGRID Number: 331501
3. Address of Operator: 825 Town and Country Ln; Bldg. 5, Suite 700, Houston, TX 77024
10. Pool name or Wildcat: AGI; Delaware
4. Well Location
Unit Letter L : 2,329 feet from the SOUTH line and 278 feet from the WEST line
Section 21 Township 26S Range 36E NMPM County LEA
11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 2,926' (GR)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	■		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:	☐		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

On October 13 and 14, 2023, the 7-inch production casing was installed in a 8.75-inch, 7,050 ft. borehole. The casing was set at a depth of 7,050 feet and cemented in three stages, as summarized below, and with 31 sacks of cement successfully circulated to surface. External casing packer (ECP) and DV tools were utilized at depths of 5,581 and 5,190 feet to ensure adequate placement of corrosion-resistant resin cement above the injection zone. Cement slurries utilized range in density from 10.0 to 14.8 lb./gal. The casing summary report and Halliburton cementing activity report are attached.

Casing	Joints	Size	Wt. (lb/ft)	Grade	Thread	Set Depth	Cement	Type/Class	Sacks	Yield
Production	162	7	29	HP-P110 SM2535 VM28110	Rattler Vamtop Vamtop	0' - 7-050'	Stage 1 Lead Stage 2 Lead Stage 3 Lead Stage 3 Tail	EconoCem WellLock HalCem NeoCem	210 16.1 bbls 375 353	1.47 cu ft/sk - 1.35 cu ft/sk 1.77 cu ft/sk

Following Stage 2 cementing operations, crews were unable to open the upper DV tool, however, the associated ECP was successfully inflated. As a result of the inability to open the DV tool, a bullhead squeeze was performed to pump Stage 3 cement down the 7-inch x 9-5/8 inch annulus. Cement was allowed to set for at least 24 hours before drilling out DV tools, and to confirm casing integrity, the 7-inch casing was successfullly pressure tested and held at approximately 1,650 psi for 30 minutes. A cement bond log was recorded and is included as an attachment to this report.

Spud Date: September 12, 2023 Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE Consultant to Northwind DATE 10/22/2023
Type or print name David A. White, P.G. E-mail address: dwhite@geolex.com PHONE: 505-842-8000

For State Use Only
APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any):

CASING AND CEMENTING
SUMMARY REPORT

Permian Oilfield Partners
Casing and Cementing Report Foreman: SP/MM-C

Well Name: Salt Creek AGI #3 Date: 10/15/23

Section: 21 Township 26S Range 36E

Surface: _____ Intermediate: _____ Production: X Liner: _____

Casing Point/TD Time: 12:31 PM TD Date: 10/11/23 Total Depth: 7050

Casing Ran:		
1	8.75" bit	1.00
1	7" bit sub	1.50
1	Davis Lynch FC	1.64
1	7" 29# HP-P110 Rattler Csg	43.06
1	Davis Lynch LC	1.64
32	7" 29# HP-P110 Rattler Csg	1401.43
1	Davis Lynch DV/ACP Combo tool	17.75
7	7" 29# SM2535 VamTop	203.18
6	7" 29# VM28110 VamTop	170.15
1	Davis Lynch DV/ACP Combo tool	18.31
116	7" 29# HP-P110 Rattler Csg	5197.98
	Total Length	7057.64
	Less above KB	7.64
	Casing set @	7050.00

Cementing Company: Halliburton DV tool top: 5581 Liner top: N/A

1st Stage Cement Slurry:

Lead: 210 sks Halliburton EconoCem w/ 0.3% Isoguard, 3% Microbond, 1.2% Econolite & 0.25 lb/sk D-Air 5000.
Yield: 1.47 Cuft/sk Weight: 13.2 PPG

Tail: _____
Yield: _____ Cuft/sk Weight: _____ PPG

Plug Down Time: 6:24 AM Date: 10/14/23 Bump plug? No

Lift Pressure 430 psi @ 1 bbls/min Circulated: 31 sacks

Displaced casing with 261 bbls of Mud (type of fluid)

2nd Stage Cement Slurry:

Lead: 16.1 bbl Helliburton WellLock Resin w/ 27% WellLock H1, 18.37% Microsand & 1% WellLock A2
Yield: _____ Cuft/sk Weight: 10 PPG

Tail: _____
Yield: _____ Cuft/sk Weight: _____ PPG

Plug Down Time: 11:17 AM Date: 10/14/2023 Closed DV tool with 2000 psi

Lift Pressure 400 psi @ 3 bbls/min Circulated: 0 sacks

Displaced casing with 207 bbls of FW (type of fluid)

3rd Stage Cement Slurry:

Lead: 375 sks HalCem w/2% CaCl2
Yield: 1.35 Cuft/sk Weight: 14.8 PPG

Tail: 353 sks NeoCem w/5% CA-661, 2.1% Econolite, 0.3% Halad-344, 0.1% SA-1015 & 0.25 lb/sk D-Air
Yield: 1.77 Cuft/sk Weight: 12.5 PPG

Plug Down Time: 5:50 PM Date: 10/15/2023 Closed DV tool with _____ psi

Lift Pressure 300 psi @ 1 bbls/min Circulated: 31 sacks

Displaced casing with N/A bbls of _____ (type of fluid)

Regulatory Field Rep notified: Gilbert Cordero email Witnessed: No

Additional Remarks: Stage 3 DV tool did not open (packer inflated). WOC 24 hrs to start stage 3 bullhead squeeze
Bullhead squeeze stage 3 cmt down 7" x 9 5/8" annulus.
300 psi final surface squeeze pressure w/cmt @ surface

CEMENTING ACTIVITY REPORT (HALLIBURTON)

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 385331	**Ship To #:** 9181954	**Quote #:** 0023090300	**Sales Order #:** 0908911376
Customer: PERMIAN OILFIELD PARTNERS LLC-EBUS		**Customer Rep:** PERMIAN	
Well Name: SALT CREEK AGI	**Well #:** 3		**API/UWI #:** 30-025-51865-00
Field:	**City (SAP):** JAL	**County/Parish:** LEA	**State:** NEW MEXICO
Legal Description:			
Contractor: AKITA DRLG		**Rig/Platform Name/Num:** AKITA 518	
Job BOM: 661899 661899			
Well Type: INJECTION			
Sales Person: HALAMERICA\HBAQ995		**Srvc Supervisor:** Kevin James King	

Job

Formation Name				
Formation Depth (MD)	**Top**		**Bottom**	
Form Type			**BHST**	
Job depth MD	7040ft		**Job Depth TVD**	
Water Depth			**Wk Ht Above Floor**	
Perforation Depth (MD)	**From**		**To**	

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Well Attachment								5180		
Well Attachment								5480		
Casing		9.625	8.835	40	BTC	L-80	0	5110		
Casing		7	6.276	26	VAM - TOP	L-80	0	5180		
Open Hole Section			8.75				5110	7040		
Casing		7	6.276	26	VAM - TOP	L-80	5180	5480		
Casing		7	6.276	26	VAM - TOP	L-80	5480	7040		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	7			7040		Top Plug	7		HES
Float Shoe	7					Bottom Plug	7		HES
Float Collar	7					SSR plug set	7		HES
Insert Float	7					Plug Container	7		HES
Stage Tool	7					Centralizers	7		HES

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water Spacer	Fresh Water Spacer	100	bbl	8.4			3	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

HALLIBURTON

Cementing Job Summary

2	NeoCem™ PT-1st Stg Primary	NeoCem TM	210	sack	13.2	1.475		5	7.48
3 %		MICROBOND (100003669)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Displacement	Displacement	261	bbl	8.4			3	

Cement Left In Pipe	Amount	ft	Reason	Shoe Joint

Fluid Data

Stage/Plug #: 2

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water Spacer	Fresh Water Spacer	10	bbl	8.4			4	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	WellLock™ Resin	WellLock™ Resin	16.1	bbl	10			4	
9.1163 gal/bbl		CHEM, WellLOCK H1, 50 GAL DRUM (102161722)							
52.713 lbm/bbl		SAND-MICROSAND, 50 LB (100003771)							
0.3535 gal/bbl		CHEM,WELLLOCK A2, 5 GALLON PAIL (102217155)							
30.22 gal/bbl		CHEM, WellLOCK R1, TOTE TANK (102161680)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Displacement	Displacement	207	bbl	8.4			4	

Cement Left In Pipe	Amount	ft	Reason	Shoe Joint

Fluid Data

Stage/Plug #: 3

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III	Mud Flush III	40	bbl	8.4			4	
4 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

HALLIBURTON

Cementing Job Summary

2	NeoCem™ 3rd Stg Lead Cement	NeoCem TM	317	sack	12.5	1.771		5	9.55

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	HalCem™ C-3rd Stg Tail Cement	HALCEM (TM) SYSTEM	375	sack	14.8	1.356		5	6.51

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	0	bbl	8.4			4	

Cement Left In Pipe	**Amount**	ft	**Reason**	Shoe Joint	
Mix Water:	pH 7	**Mix Water Chloride:**	500 ppm	**Mix Water Temperature:**	## °F °C
Cement Temperature:	## °F °C	**Plug Displaced by:**	8.9 lb/gal kg/m3 AND 8.33	**Disp. Temperature:**	## °F °C
Plug Bumped?	Yes	**Bump Pressure:**	2000 psi MPa	**Floats Held?**	Yes
Cement Returns:	10 bbl m3	**Returns Density:**	## lb/gal kg/m3	**Returns Temperature:**	## °F °C
Comment					

HALLIBURTON

Summary Report

Crew:

Job Start Date: 10/14/2023 12:00 AM

Sales Order #: 0908911376
WO #: 0908911376
PO #: NA
AFE # :

Customer:	PERMIAN OILFIELD PARTNERS LLC-EBUS	**Field:**		**Job Type:**	CMT, MULTIPLE STAGES PROD CASING BOM
UWI / API Number:	30-025-51865-00	**County/Parish:**	LEA	**Service Supervisor:**	Kevin James King
Well Name:	SALT CREEK AGI	**State:**	NEW MEXICO		
Well No:	3	**Latitude:**	32.027965		
		Longitude:	-103.277702	**Cust Rep Name:**	PERMIAN
		Sect / Twn / Rng:	//	**Cust Rep Phone #:**	

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

HALLIBURTON

Permian Basin, Odessa

Lab Results- 1st Stage Primary

Job Information

Request/Slurry	2813407/13	**Rig Name**	Akita 518	**Date**	11/AUG/2023
Submitted By		**Job Type**	Production Casing	**Bulk Plant**	Odessa, TX
Customer	Permian Oilfield Partners	**Location**	Lea	**Well**	Salt Creek AGI#3

Well Information

Casing/Liner Size	7 in	**Depth MD**		**BHST**	49°C / 120°F
Hole Size	8.75 in	**Depth TVD**		**BHCT**	35°C / 95°F
Pressure	3000 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density

Cement Information - Tail Design

Conc	UOM	Cement/Additive
		NeoCem™ Cement
0.3	% BWOC	Isoguard
0.25	lb/sk	D-Air 5000
3	% BWOC	Microbond
1.2	% BWOC	Econolite (Powder - PB)

Cement Properties

Slurry Density	13.2	lbm/gal
Slurry Yield	1.47	ft3/sack
Water Requirement	7.48	gal/sack
Total Mix Fluid	7.48	gal/sack
Water Source	Fresh Water	

Pilot Test Results Request ID 2813407/13

Thickening Time, Request Test ID:39967133 — 16/AUG/2023

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Termination Time	Termination BC
95	3000	29	16.1	05:16	06:06	08:42	10:49	12:07	14:13	112.7

UCA Comp. Strength, Request Test ID:39967135 — 17/AUG/2023

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	100 psi (hh:mm)	500 psi (hh:mm)	1000 psi(hh:mm)	8hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
120	3000	3:49	4:39	10:07	22:09	395	571	715	1066	1585	1641	51

HALLIBURTON

Permian Basin, Odessa

Lab Results- WellLock® Resin

Job Information

Request/Slurry	2820592/4	**Rig Name**	Akita 518	**Date**	26/SEP/2023
Submitted By		**Job Type**	Production Casing	**Bulk Plant**	Odessa, TX
Customer	Permian Oilfield Partners	**Location**	Lea	**Well**	Salt Creek AGI #3

Well Information

Casing/Liner Size	7 in	**Depth MD**	5580 ft	**BHST**	50°C / 122°F
Hole Size	8.5 in	**Depth TVD**	5580 ft	**BHCT**	36°C / 96°F
Pressure	3100 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density

Cement Information - Primary Design

Conc	UOM	Cement/Additive
		WellLock® Resin
100	% BWOC	WellLock R1
27	% BWOC	WellLock H1
1	% BWOC	WellLock A2
18.37	% BWOC	MICROSAND

Cement Properties

Slurry Density	10	lbm/gal

Pilot Test Results Request ID 2820592/4

Thickening Time - ON-OFF-ON, Request Test ID:40071475 — 29/SEP/2023

Test Temp (degF)	Pressure (psi)	Batch Mix (min)	Reached in (min)	100 Bc (hh:min)	Start Bc
96	3100	30	20	11:11	19

HALLIBURTON

Permian Basin, Odessa

Lab Results- 3rd Stage Lead

Job Information

Request/Slurry	2813858/1	**Rig Name**	Akita 518	**Date**	14/AUG/2023
Submitted By		**Job Type**	Production Casing	**Bulk Plant**	Odessa, TX
Customer	Permian Oilfield Partners	**Location**	Lea	**Well**	Salt Creek AGI #3

Well Information

Casing/Liner Size	9.625 in	**Depth MD**	5300 ft	**BHST**	50°C / 122°F
Hole Size	12.25 in	**Depth TVD**	5300 ft	**BHCT**	38°C / 100°F
Pressure	3500 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density

Cement Information - Lead Design

Conc	UOM	Cement/Additive
		NeoCem™ Cement
0.3	% BWOC	HALAD-344 (PB)
0.1	% BWOC	SA-1015 (PB)
2.1	% BWOC	Econolite (Powder - PB)
5	% BWOC	CA-661
0.25	lb/sk	D-Air 5000

Cement Properties

Slurry Density	12.5	lbm/gal
Slurry Yield	1.77	ft3/sack
Water Requirement	9.55	gal/sack
Total Mix Fluid	9.55	gal/sack
Water Source	Fresh Water	

Pilot Test Results Request ID 2813858/1

Thickening Time - Thixotropic Cup, Request Test ID:39964601 — 16/AUG/2023

Temp (degF)	Reached in (min)	Pressure (psi)	Batch Mix (min)	Start Bc	26 Bc (hh:mm)
100	30	3500	0	13.8	06:21

HALLIBURTON

Permian Basin, Odessa

Lab Results- 3rd StageTail

Job Information

Request/Slurry	2820218/1	**Rig Name**	H&P 508	**Date**	24/SEP/2023
Submitted By		**Job Type**	Production Casing	**Bulk Plant**	Odessa, TX
Customer	Permian Oilfield Partners	**Location**	Lea	**Well**	Salt Creek AGI #3

Well Information

Casing/Liner Size	7 in	**Depth MD**	1200 ft	**BHST**	35°C / 95°F
Hole Size	8.75 in	**Depth TVD**	1200 ft	**BHCT**	29°C / 85°F
Pressure	1000 psi				

Drilling Fluid Information

Mud Supplier Name	**Mud Trade Name**	**Density**	8.6 lbm/gal

Cement Information - Tail Design

Conc	UOM	Cement/Additive
		HalCem
6.42	gal/sack	Fresh Water

Cement Properties

Slurry Density	14.8	lbm/gal
Slurry Yield	1.33	ft3/sack
Water Requirement	6.42	gal/sack
Total Mix Fluid	9.97	gal/sack
Water Source	Fresh Water	

Pilot Test Results Request ID 2820218/1

Thickening Time - ON-OFF-ON, Request Test ID:40061059 — 24/SEP/2023

Test Temp (degF)	Pressure (psi)	Batch Mix (min)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Termination time (hh:min)	Termination Bc
85	1000	0	13	3:14	3:41	4:00	4:19	3	4:56	119.4

Pilot Test Results Request ID 2805076/2

UCA Comp. Strength, Request Test ID:39833308, Historical Data — 25/JUN/2023

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	100 psi (hh:mm)	500 psi (hh:mm)	1000 psi(hh:mm)	8hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
96	3000	03:27	04:09	08:19	13:02	467	900	1230	1576	2086	2137	51

HALLIBURTON

Permian Basin, Odessa

Lab Results- Tail

Job Information

Request/Slurry	2823372/1	**Rig Name**		**Date**	14/OCT/2023
Submitted By	Javier Vargas Machado	**Job Type**	Shoe Squeeze	**Bulk Plant**	Odessa, TX
Customer	Permian Oilfield Partners	**Location**	Lea	**Well**	Salt Creek AGI #3

Well Information

Casing/Liner Size	9.625 in	**Depth MD**	4500 ft	**BHST**	60°C / 140°F
Hole Size	7 in	**Depth TVD**	4500 ft	**BHCT**	38°C / 100°F
Pressure	3500 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density

Cement Information - Tail Design

Conc	UOM	Cement/Additive
		HalCem
100	%	> Cemex Premium Plus C
2	% BWOC	CaCl2 (Calcium Chloride) 94-97 % Salt

Cement Properties

Slurry Density	14.8	lbm/gal
Slurry Yield	1.35	ft3/sack
Water Requirement	6.45	gal/sack
Total Mix Fluid	6.45	gal/sack

Pilot Test Results Request ID 2812205/1

Thickening Time, Request Test ID:39937778, Historical Data — 02/AUG/2023

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Termination Time	Termination BC
90	3500	30	27	00:50	00:56	01:02	01:16	01:32	01:52	115.6

Pilot Test Results Request ID 2810023/2

UCA Comp. Strength, Request Test ID:39905421, Historical Data — 21/JUL/2023

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	100 psi (hh:mm)	500 psi (hh:mm)	1000 psi(hh:mm)	8hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	End CS (psi)	End Time (hrs)
91	3000	1:41	2:06	5:33	13:24	693	932	1114	1326	1352	24

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	10/13/2023	18:00:00	USER					WE WERE CALLED OUT AT 18:00 TO BE ON LOCATION AT 0:00.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/13/2023	18:30:00	USER					WE TALKED ABOUT THE ROUTE WE WOULD TAKE AND WHERE WE WOULD STOP ON THE WAY.
Event	3	Arrive At Loc	Arrive At Loc	10/13/2023	21:00:00	USER					TALKED TO THE COMPANY MAN ABOUT SPOTTING EQUIPMENT AND THE FLUIDS NEEDED FOR THE JOB.
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/13/2023	21:20:00	USER					TOLD EVERYONE WHAT JOB TASK THEY WOULD BE DOING AND THE SAFETY ISSUES WITH THE TASK AND THE SAFETY ISSUES ON LOCATION.

Event	5	Rig-Up Equipment	Rig-Up Equipment	10/13/2023	21:30:00	USER	
Event	6	Other	WATER TEST	10/13/2023	21:35:00	USER	THE WATER TEMPERATURE IS 75 AND THE PH IS 7. THE CHLORIDES ARE 500.
Event	7	Other	CHECK PLUG CONTAINER	10/13/2023	21:40:00	USER	THE PLUG CONTAINER HAS BEEN CHECKED OUT ALONG WITH THE CASING AND PLUGS.
Event	8	Rig-Up Completed	Rig-Up Completed	10/13/2023	23:11:19	USER	WE COMPLETED THE RIG-UP INJURY FREE.
Event	9	Standby - Other - see comments	Standby - Other - see comments	10/13/2023	23:11:24	USER	WE ARE WAITING FOR THE RIG TO RUN CASING.
Event	10	Other	OPEN HOLE	10/13/2023	23:11:25	USER	THE RIG DRILLED AN 8 3/4" OPEN HOLE FROM 5100' DOWN TO 7050'. WE WILL USE .0268 BBLS/FT AS OUR VOLUME AND HEIGHTS FACTOR.
Event	11	Other	PREVIOUS CASING	10/13/2023	23:11:27	USER	THE RIG RAN A 9 5/8" 40# CASING DOWN TO 5100'. WE WILL USE .0282 BBLS/FT AS OUR VOLUME AND HEIGHTS FACTOR.

Event	12	Other	CASING	10/13/2023	23:11:28	USER	THE RIG RAN A 7" 26# AND A 7" 29# STRING OF CASING. THEY RAN 602' OF THE 26#. THEY HAD IT RAN FOR THE SECOND STAGE. WE WILL USE .0382 BBLS/FT FOR THE 26# AND WE WILL USE .0371 BBLS/FT FOR THE 29#. THE RIG RAN A TOTAL OF 7057.64' OF CASING.
Event	13	Other	FLOAT EQUIPMENT AND PLUGS	10/13/2023	23:11:30	USER	THE RIG USED DAVIS LYNCH FLOAT WITH A MULTI-STAGE PLUG SYSTEM. DAVIS LYNCH SUPPLIED THE PLUGS.
Event	14	Other	HEIGHTS AND TOPS	10/13/2023	23:11:33	USER	ON A GUAGED HOLE: 1ST STAGE: HEIGHT OF THE CEMENT IS 1469' AND THE TOP OF THE CEMENT IS 5581' 2ND STAGE: THE HEIGHTS THE WELL LOC IS 391' AND THE TO PIS 5190'.
Event	15	Other	CUBIC FEET	10/13/2	23:11:3	USER	THE CUBIC FEET OF

				023	7		THE CEMENT: 1ST STAGE: 308 CU/FT
Event	16	Other	BOTTOM	10/14/2023	02:30:00	USER	THE RIG REACHED BOTTOM
Event	17	Other	CIRCULATE WELL	10/14/2023	02:31:00	USER	THE RIG CIRCULATED THE WELL WITH A 8.9 PPG WELL FLUID. THEY CIRCULATED THE WELL AT 14 BBLS/MIN WITH 384 PSI. THEY HAD RETURNS WHILE PUMPING. THEY DID NOT WORK THE PIPE.
Event	18	Other	RIG UP PLUG CONTAINER	10/14/2023	03:50:00	USER	WE RIGGED UP THE PLUG CONTAINER AND THE IRON TO THE HEAD.
Event	19	Other	Other	10/14/2023	03:50:00	USER	THE RIG STOPPED CIRCULATING THE WELL. RIG DOWN THE CASING CREW AND THE CRT
Event	20	Start Job	Start Job	10/14/2023	04:45:12	COM4	
Event	21	Prime Pumps	Prime Pumps	10/14/2023	04:45:48	COM4	
Event	22	Test Lines	Test Lines	10/14/2	04:51:1	COM4	WE TESTED KICK OUTS

				023	8		TO 500 PSI THEN TESTED LINES TO 8000 PSI.
Event	23	Pump Spacer 1	Pump Spacer 1	10/14/2023	04:54:50	COM4	WE PUMPED 100 BBLS OF WATER AT 8 BBLS/MIN WITH 600 PSI. THE RIG HAD RETURNS WHILE PUMPING. THE RIG DID NOT WORK THE PIPE.
Event	24	Pump Cement	Pump Cement	10/14/2023	05:11:03	COM4	WE PUMPED 210 SACKS OF CEMENT AT 13.2 PPG. THE YIELD IS 1.47 AND THE MIX FLUID IS 7.48. WE PUMPED 55 BBLS OF CEMENT AT 5 BBLS/MIN WITH 300 PSI. WE HAD RETURNS WHILE PUMPING. THE RIG DID NOT WORK THE PIPE.
Event	25	Clean Lines	Clean Lines	10/14/2023	05:20:26	COM4	WE WASHED PUMPS AND LINES FROM THE PLUG CONTAINER.
Event	26	Drop Top Plug	Drop Top Plug	10/14/2023	05:28:19	COM4	WE DROPPED A DAVIS LYNCH FIRST STAGE TOP PLUG.

Event	27	Pump Displacement	Pump Displacement	10/14/2023	05:28:50	USER	WE DISPLACED THE WELL WITH 261 BBLS OF A 8.9 PPG WELL FLUID. WE DISPLACED THE WELL AT 8 BBLS/MIN. WE HAD RETURNS WHILE PUMPING. THE RIG DID NOT WORK THE PIPE.
Event	28	Other	BUMP THE PLUG	10/14/2023	06:24:31	COM4	WE DID NOT BUMP THE FIRST STAGE TOP PLUG. WE PUMPED 2 BBLS OVER THE CALCULATED DISLACEMENT VOLUME. STILL NO BUMP. WE HAD 340 PSI ON THE CASING.WE GOT THE PRESSURE UPTO 430 PSI WITH NO SUCESSFUL BUMP.
Event	29	Other	CHECK FLOATS	10/14/2023	06:29:20	COM4	WE BLED BACK 1/2 A BBL THE FLOATS HELD.
Event	30	Other	DROP PACKER PLUG	10/14/2023	06:35:57	COM4	WE DROPPED THE FIRST STAGE PACKER PLUG. WE WILL WAIT 26 MINUTES.
Event	31	Other	Other	10/14/2023	07:18:00	USER	WE INFLATED THE PACKER TO 856 PSI

							AND THE PRESSURE FELL TO 820 PSI. WE THEN PRESSURED UP TO OPEN THE TOOL. WE INFLATED THE PACKER TO 1213 PSI.
Event	32	Other	CIR WELL	10/14/2023	07:20:00	USER	WE STARTED TO CIRCULATE THE WELL WITH A 8.9 PPG WELL FLUID. WE CIRCULATED THE WELL AT 8 BBLS/MIN WITH 650 PSI. WITH 160 BBLS PUMPED WE HAD CEMENT COME TO SURFACE.
Event	33	Other	MIXING WELL LOCK	10/14/2023	08:03:00	USER	WE STARTED TO ADD THE R1 INTO THE BATCH MIXER. THE TEMPERATURE WHEN DONE WAS 56.7 DEGREES.
Event	34	Other	MIX WELL LOCK	10/14/2023	09:10:00	USER	WE STARTED TO ADD THE SAND TO THE R1. THE TEMPERATURE WAS 58.3 DEGREES.
Event	35	Other	MIXING WELL LOCK	10/14/2023	09:52:00	USER	WE STARTED TO ADD THE WELL LOCK H1. THE TEMPERATURE WAS 61.2 DEGREES. WE TOLD THE

							CUSTOMER WE WERE READY FO RTHE ACCELERATOR WHEN HE WAS. HE SAID HE WELL LET US KNOW.
Event	36	Other	MIXING WELL LOCK	10/14/2023	10:16:00	USER	WE ADDED THE ACCELERATOR THE THE WELL LOCK. THE TEMPERATURE WAS 69.1 DEGREES.
Event	37	Pump Spacer 1	Pump Spacer 1	10/14/2023	10:30:42	COM4	WE PUMPED 10 BBLS OF WATER AS A SPACER. WE PUMPED IT AT 4 BBLS/MIN WITH 157 PSI. WE HAD RETURNS WHILE PUMPING. THE RIG DID NOT WORK THE PIPE.
Event	38	Pump Cement	Pump Cement	10/14/2023	10:33:27	COM4	WE PUMPED 16.1 BBLS OF WELL LOCK AT 10.0 PPG. WE PUMPED IT AT 4 BBLS/MIN WITH 500 PSI. AS THE WELL LOCK WAS BEING DISCHARGED FROM THE BATCH MIXER THE TEMPERATURE WAS 71.1 DEGREES. WE HAD RETURNS

							WHILE PUMPING. THE RIG DID NOT WORK THE PIPE.
Event	39	Clean Lines	Clean Lines	10/14/2023	10:41:49	COM4	WE WASHED PUMPS AND LINES FORM THE PLUG CONTAINER. WE WASHED THE PUMPS AND LINES WITH MUSOL A. THEN PUMPED FRESH WATER AFTER 10 BBLS OF MUSOL A. TILL WE HAD CLEAN WATER COMING BACK.
Event	40	Drop Top Plug	Drop Top Plug	10/14/2023	10:42:44	COM4	WE DROPPED THE SECOND STAGE TOP PLUG.
Event	41	Pump Displacement	Pump Displacement	10/14/2023	10:42:48	COM4	WE DISPLACED THE WELL WITH 207 BBLS OF WATER. WE DISPLACED THE WELL AT 8 BBLS/MIN. WE HAD RETURNS WHILE PUMPING. THE RIG DID NOT WORK THE PIPE.
Event	42	Bump Plug	Bump Plug	10/14/2023	11:17:30	COM4	WE BUMPED THE PLUG AT 400 PSI AND TOOK THE PRESSURE UPTO 2000 PSI. WE BLED BACK 1 1/2 BBLS

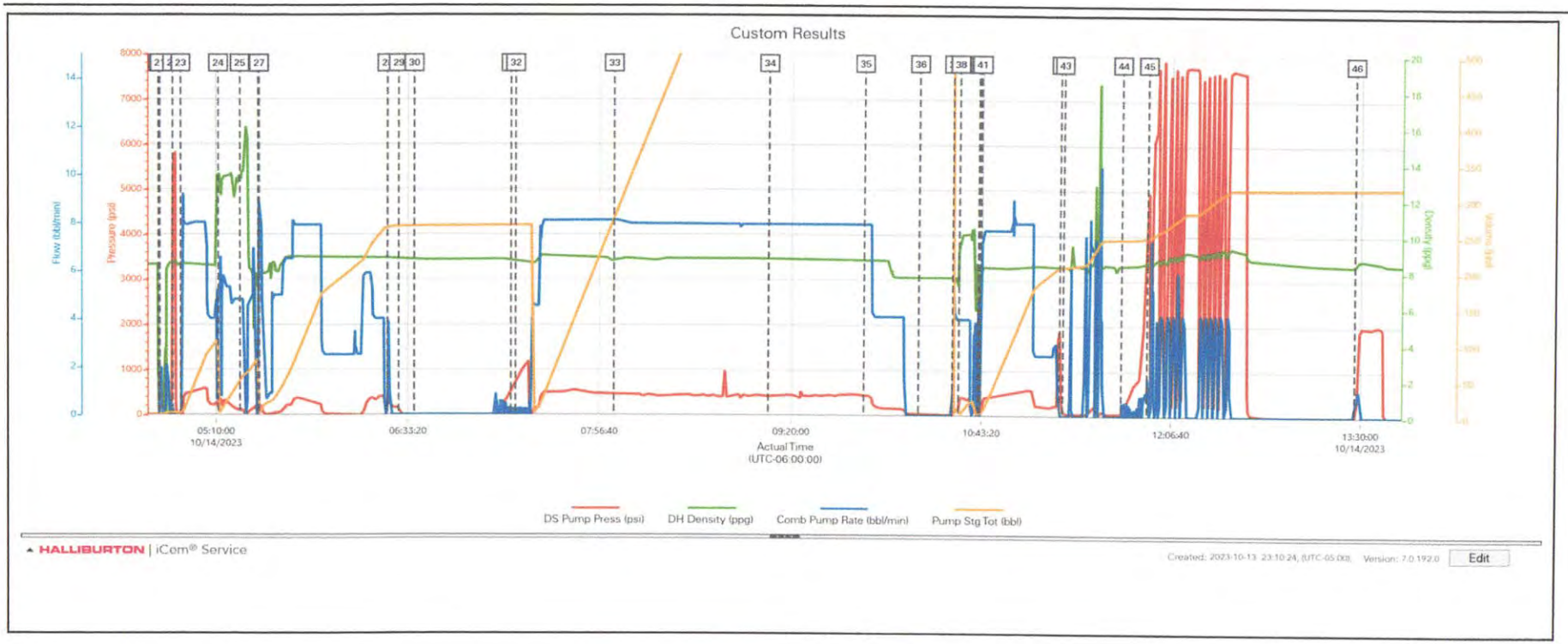
							OF FLUID AND THE FLOATS HELD.
Event	43	Other	Other	10/14/2023	11:19:00	USER	WE DROPPED THE PACKER PLUG AND WILL WAIT 26 MINUTES FOR THE PLUG TO FALL.
Event	44	Other	Other	10/14/2023	11:44:41	COM4	WE INFLATED THE PACKER AT 856 PSI AND THE PRESSURE FELL TO 820 PSI. WE THEN STARTED TO OPEN THE TOOL.
Event	45	Other	Other	10/14/2023	11:56:04	COM4	WE DID NOT OPEN THE TOOL. WE PRESSURED UP SEVERAL TIMES TO 8000 PSI. BUT WE COULD NOT OPEN THE TOOL.
Event	46	Other	Other	10/14/2023	13:27:17	COM4	WE PUT 2000 PSI ON THE CASING AND THE RIG IS GOING TO PUMP DOWN THE ANUULAS TO PUSH THE WELL LOCK INTO FORMATION. THE RIG PUMPED 7 1/2 BBLS INTO FORMATION AT 210 PSI. THE MAX PRESSURE THAT WAS

							ON THE CASING WAS 2100 PSI.
Event	47	Other	Other	10/14/2023	16:00:00	COM4	THE COMPANY MAN HAS RELEASED HALLIBURTON AND SAID THEY WILL WAIT 24 TO 36 HOURS TO DO THE THIRD STAGE CEMENT JOB.
Event	48	Other	Other	10/14/2023	16:01:38	USER	THE CHEMICALS LEFT ON LOCATION FROM THE WELL LOCK JOB IS: 1 TOTE OF R1 -- WE USED SOME OF THE MATERIAL OUT OF IT. 1 1/2 BUCKETS OF ACCELERATOR 1 DRUM WITH 20 GALS OF THE HARDENER 4 SACKS OF MUD FLUSH
Event	49	Other	Other	10/14/2023	16:01:39	USER	HOURS ON LOCATION IS JOB TIME WAS 0:00 AND WE LEFT LOCATION AT 17:00. TOTAL HOURS 17 SO WE HAVE 7 ADDTIONAL HOURS ON THE TICKET SO

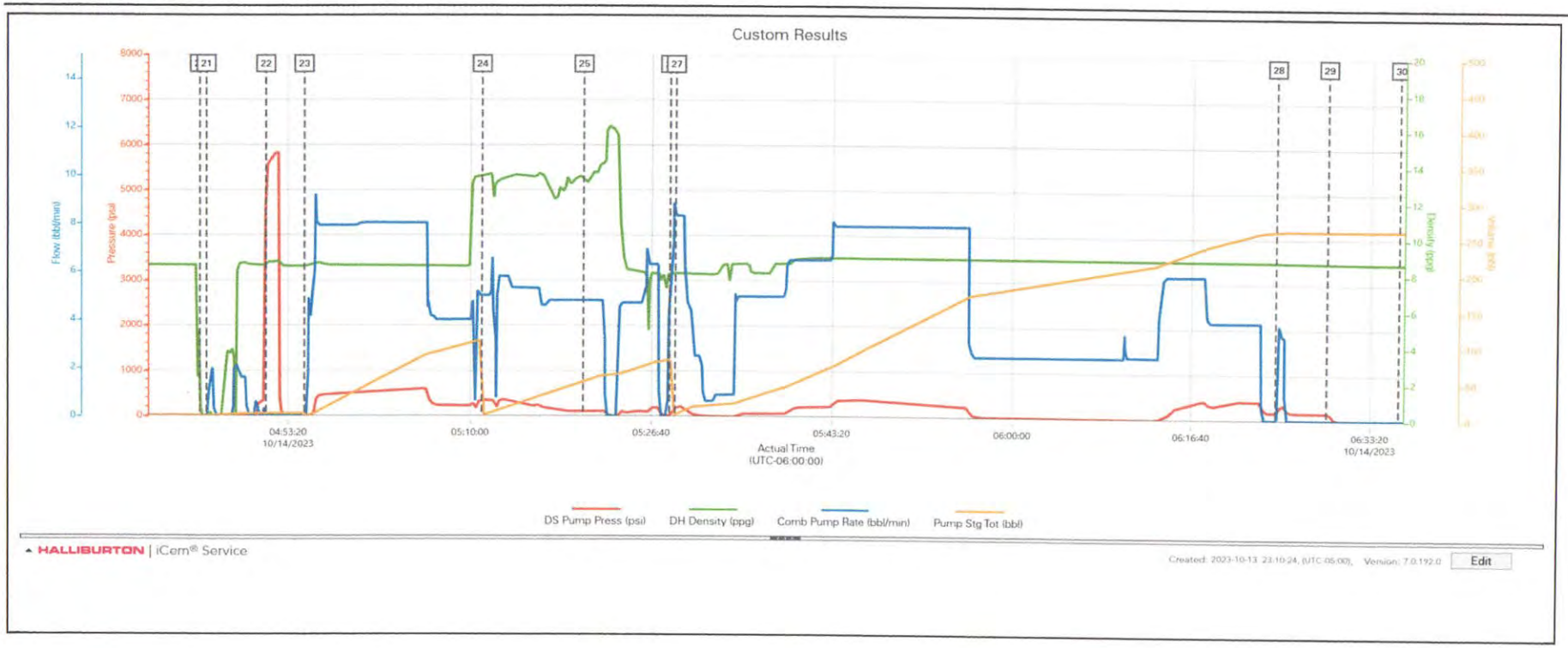
							FAR.
Event	50	Other	Other	10/14/2023	16:01:45	USER	WE HAVE 475 SACK OF THIRD STAGE LEAD CEMENT IN THE BIN. THE 50 SACKS OF THIRD STAGE TAIL CEMENT WAS LEFT ON THE 660 AND SENT BACK TO THE YARD.
Event	51	Other	Other	10/14/2023	16:01:48	USER	WE LEFT THE CEMENT HEAD RIGGED UP ON THE RIG FLOOR.

3.0 Attachments

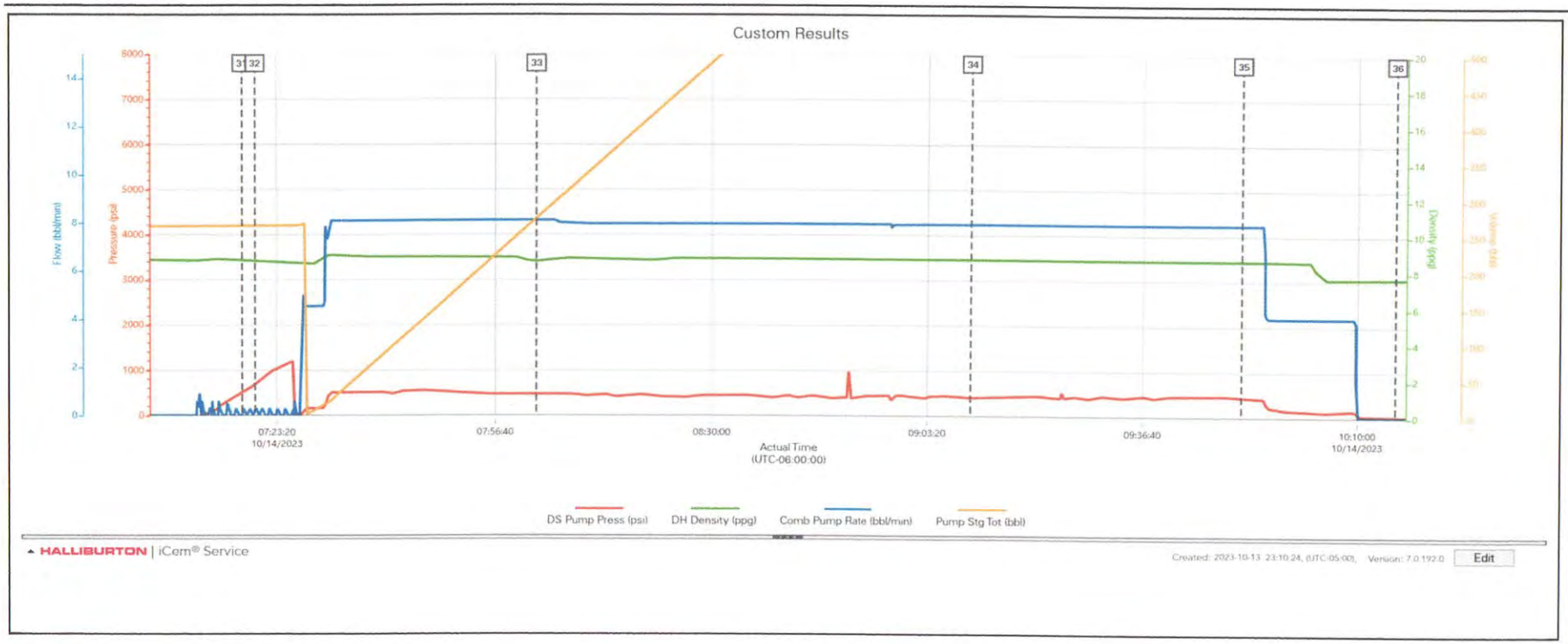
3.1 CHART.png



3.2 1ST STAGE.png



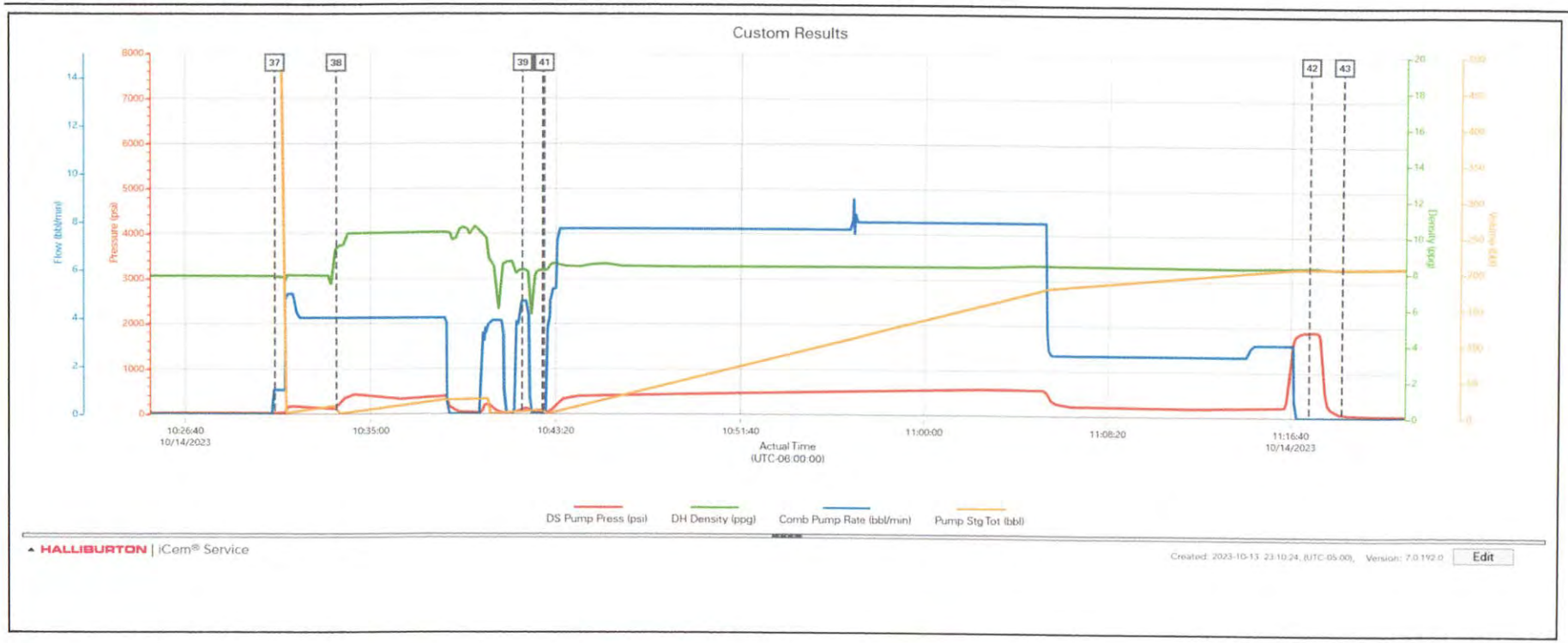
3.3 PACKER CIR WELL 1ST STAGE.png



HALLIBURTON

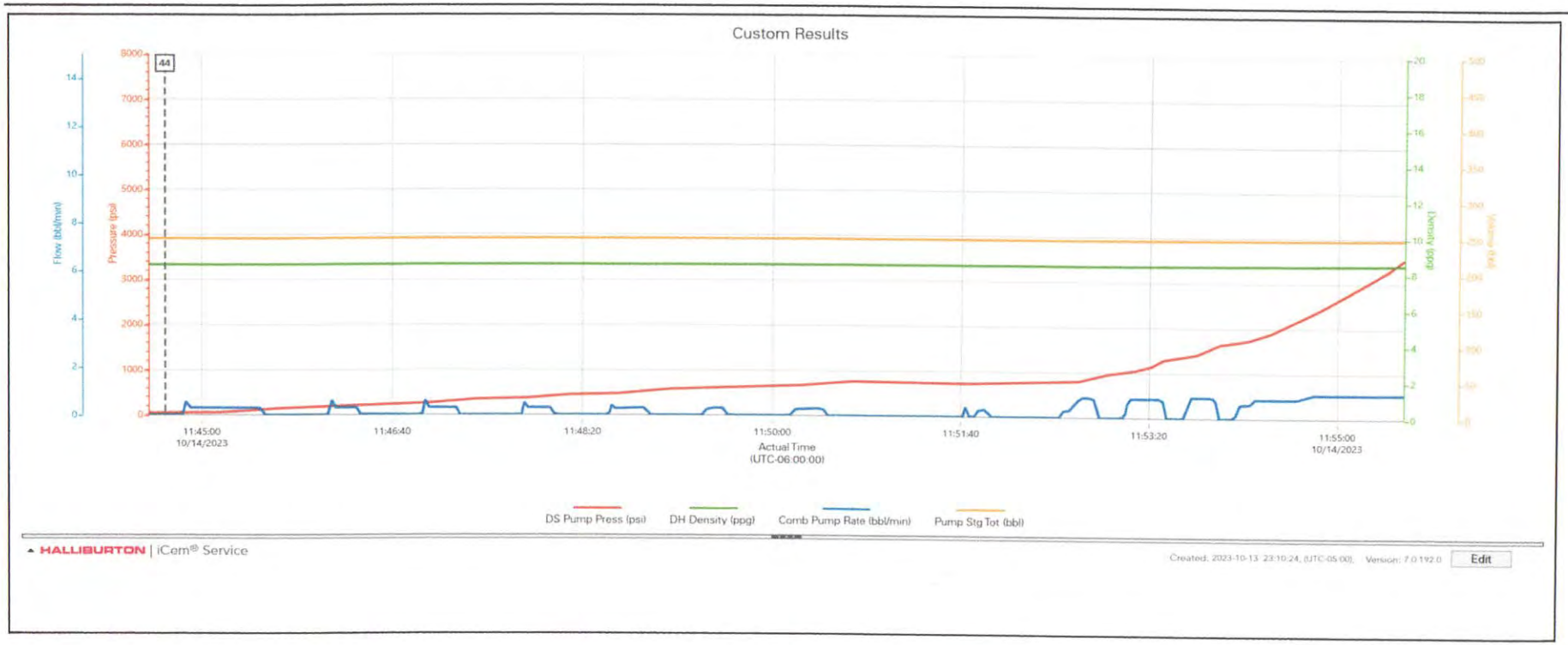
Customer: PERMIAN BASIN METALURGICAL LAB
Job: 0908911376
Case: Case 1

3.4 SECOND STAGE.png

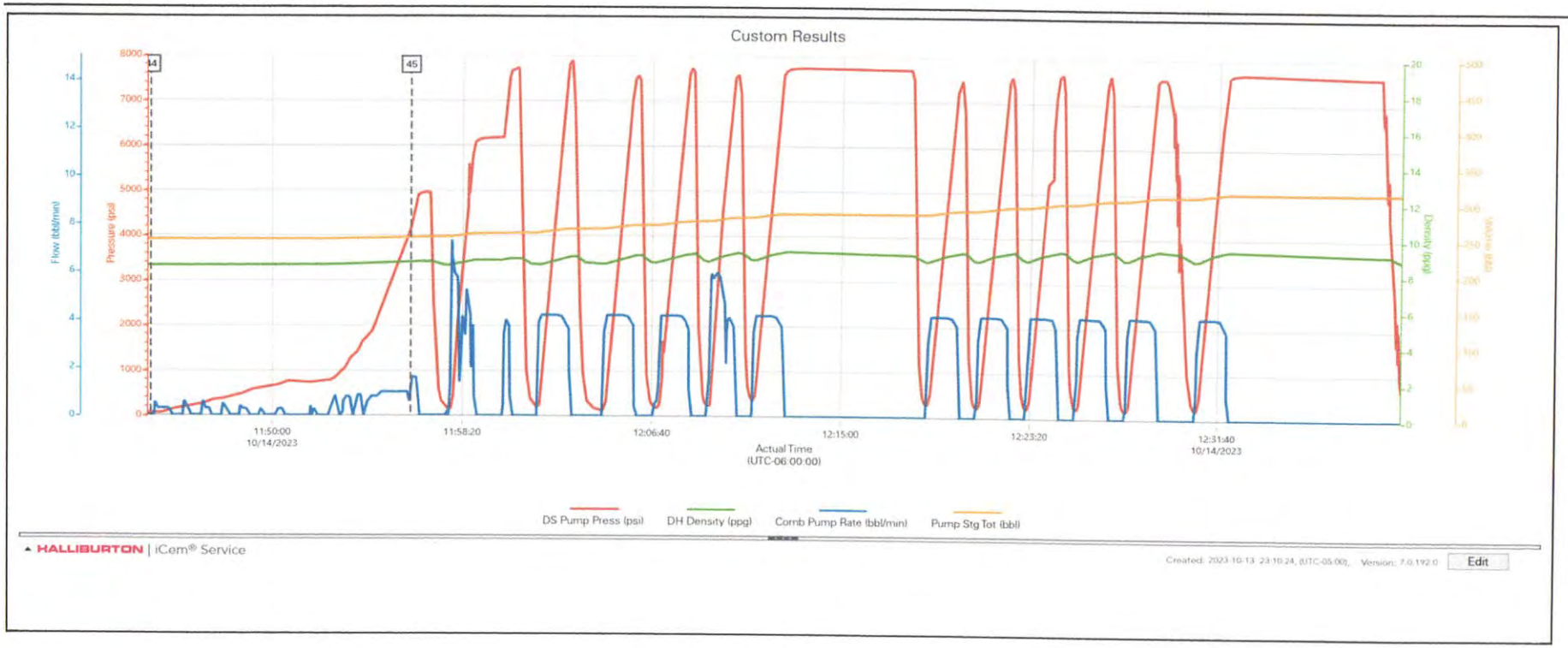


iCem® Service
(v. 7.0.192.0)
Created: Saturday, October 14, 2023

3.5 SECOND STAGE PACKER.png



3.6 ATTEMPS TO OPEN TOOL.png



1.0 Real-Time Job Summary

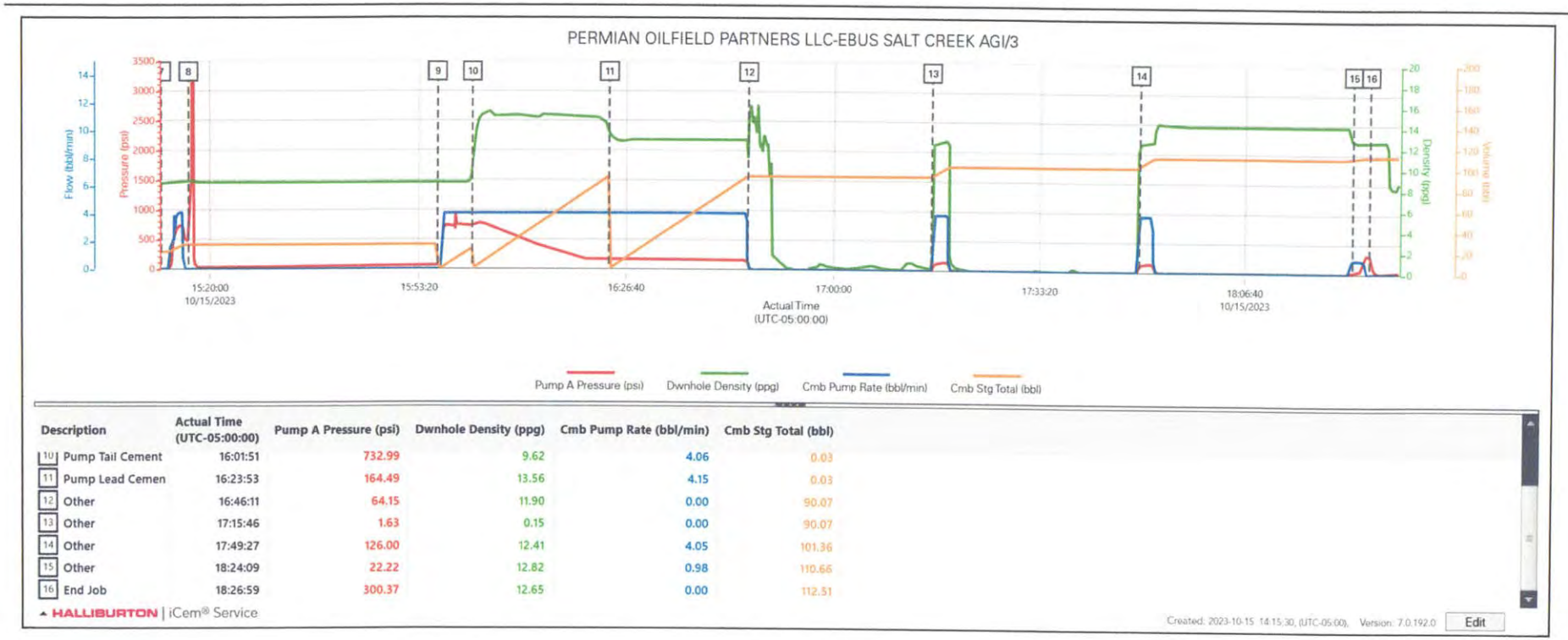
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pump A Pressure (psi)	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Cmb Stg Total (bbl)	Comments
Event	1	Call Out	Call Out	10/15/2023	08:00:00	USER					Crew got called out for PERMIAN OILFIELD PARTNERS LLC-EBUS SALT CREEK AGI3 661899 CMT, MULTIPLE STAGES PROD CASING BOM - SO# 0908911376
Event	2	Arrive At Loc	Arrive At Loc	10/15/2023	13:00:00	USER					Report with Customer. Will Pump Cmt Job Through back side.. 3000 Max Psi..
Event	3	Pre-Rig Up Safety Meeting	Safety Meeting - Pre Rig-Up	10/15/2023	13:10:00	USER					Went over any potential hazards... and signed JSA
Event	4	Rig-Up Completed	Rig-Up Completed	10/15/2023	14:28:00	USER					no issues to report..
Event	5	Rig-up Lines	Rig-up Lines	10/15/2023	15:00:00	USER					Rig-up Lines to Pump Through Back Side
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/15/2023	15:10:00	USER					

Event	7	Start Job	Start Job	10/15/2023	15:12:11	NONE	
Event	8	Test Lines	Test Lines	10/15/2023	15:16:34	NONE	Test Kick- Outs to 500 Psi Lines to 3000 Psi...
Event	9	Pump Spacer 1	Pump Spacer 1	10/15/2023	15:56:13	NONE	Pumped 20 bbls of Spacer.. Mud Flush 4 bpm.. 730 psi...
Event	10	Pump Tail Cement	Pump Tail Cement	10/15/2023	16:01:51	NONE	Pumped 90 bbls of Tail Cmt @ 14.8 ppg.. 4 bpm.... 680 psi....
Event	11	Pump Lead Cement	Pump Lead Cement	10/15/2023	16:23:53	NONE	Pumped 90 bbls of Lead Cmt @12.5 ppg 4 bpm.. 160 psi...
Event	12	Other	Other	10/15/2023	16:46:11	NONE	Shutdown.. Wait on Cmt
Event	13	Other	Other	10/15/2023	17:15:46	NONE	Pump 10 bbls of Lead Cmt @12.5 # wait on Cmt
Event	14	Other	Other	10/15/2023	17:49:27	NONE	Pump 10 bbls of Lead Cmt Shutsown and wait on Cmt
Event	15	Other	Other	10/15/2023	18:24:09	NONE	Pump Lead Cmt 1 bpm.. 27 psi..
Event	16	End Job	End Job	10/15/2023	18:26:59	NONE	Shutdown.. Bled-off Circulated Cmt Back To Surface

2.0 Attachments

2.1 Case 1-Custom Results.png



Description	Actual Time (UTC-05:00:00)	Pump A Pressure (psi)	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Cmb Stg Total (bbl)
10 Pump Tail Cement	16:01:51	732.99	9.62	4.06	0.03
11 Pump Lead Cemen	16:23:53	164.49	13.56	4.15	0.03
12 Other	16:46:11	64.15	11.90	0.00	90.07
13 Other	17:15:46	1.63	0.15	0.00	90.07
14 Other	17:49:27	126.00	12.41	4.05	101.36
15 Other	18:24:09	22.22	12.82	0.98	110.66
16 End Job	18:26:59	300.37	12.65	0.00	112.51

HALLIBURTON | iCem® Service

Created: 2023-10-15 14:15:30, (UTC-05:00), Version: 7.0.192.0 Edit

CEMENT BOND LOG
(SCHLUMBERGER)

Company: PERMIAN OILFIELD PARTNERS, LLC

Well: SALT CREEK AGI 003

Field: AGI DELAWARE

County: LEA State: NEW MEXICO

Cement Bond Log

Variable Density Log

Gamma Ray - CCL

County: LEA
Field: AGI DELAWARE
Location: Sec. 21, Rng. 36-E, Town. 26-S
Well: SALT CREEK AGI 003
Company: PERMIAN OILFIELD PARTNERS, LLC

Location:				
Sec. 21, Rng. 36-E, Town. 26-S		Elev.:	K.B.	2946.00 ft
SHL: 2339' FSL & 278' FWL			G.L.	2926.00 ft
Survey: Matthew B. Tomerlin			D.F.	2946.00 ft
Permanent Datum:	Ground Level	Elev.:		2926.00 f
Log Measured From:	Kelly Bushing	20.00 ft		above Perm.Datum
Drilling Measured From:	Kelly Bushing			

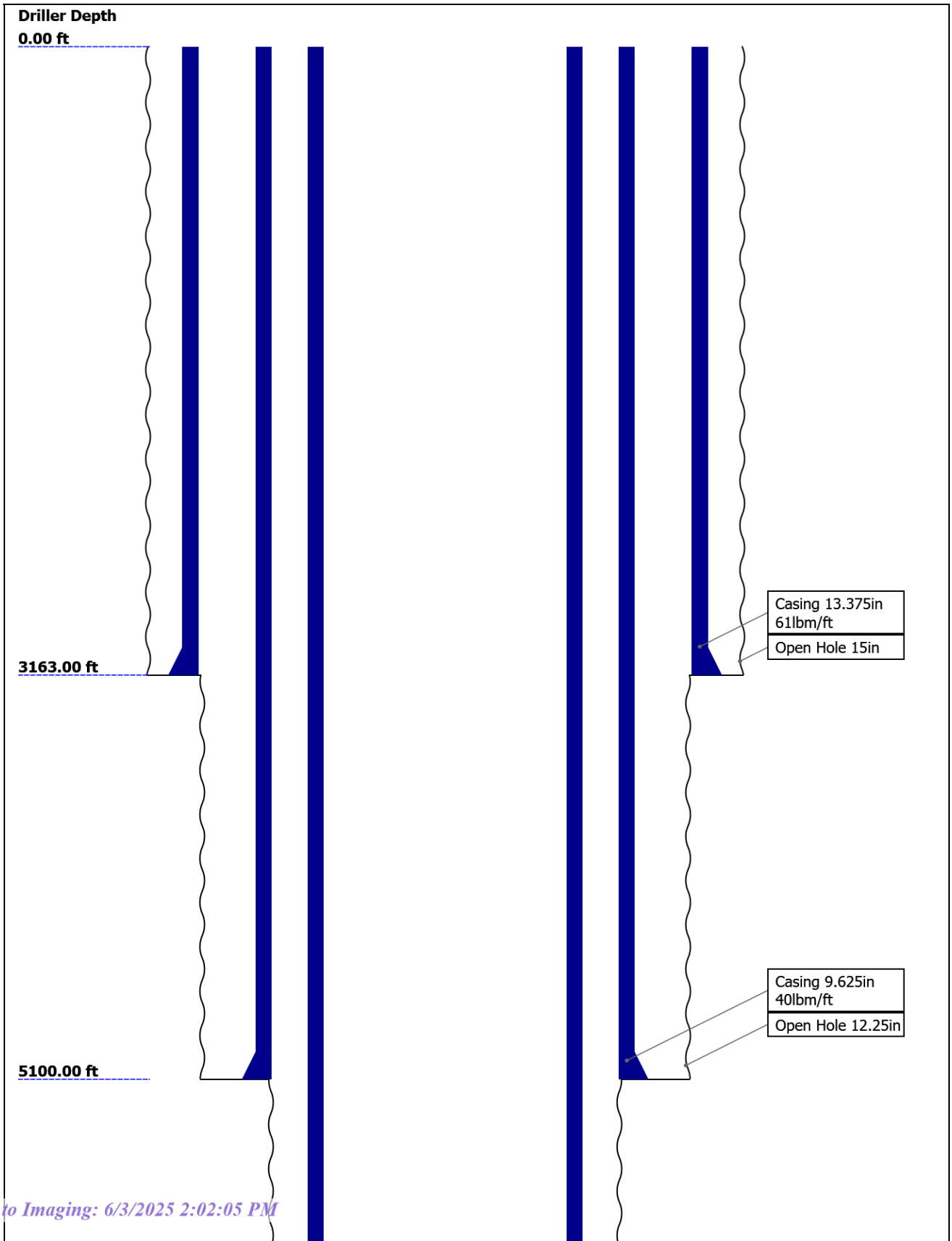
API Serial No.	Section:	Township:	Range:
30-025-51865	21	26-S	36-E

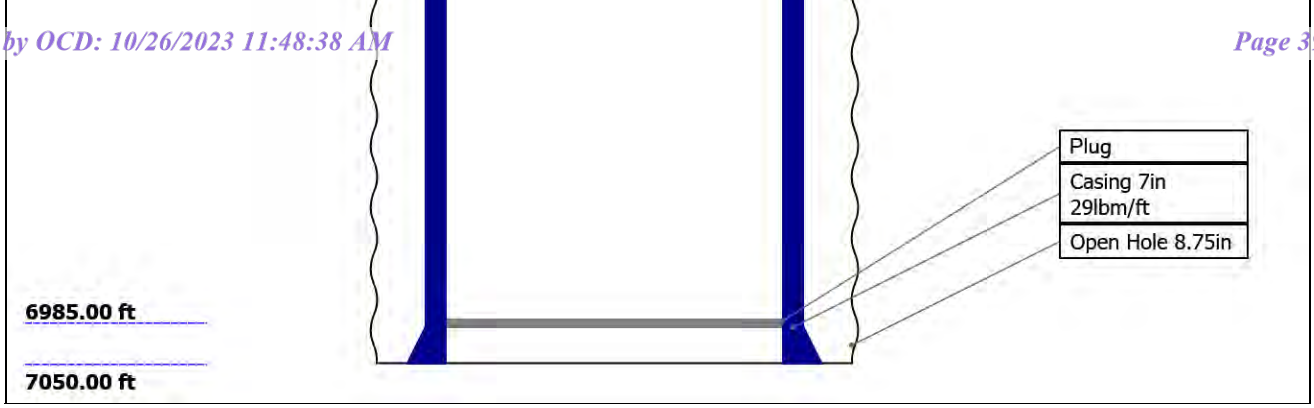
Logging Date		18-Oct-2023			
Run Number		1A			
Depth Driller		7050.00 ft			
Schlumberger Depth		7050.00 ft			
Bottom Log Interval		6952.00 ft			
Top Log Interval		50.00 ft			
Casing Fluid Type		Fresh Water			
Salinity					
Density		9 lbm/gal			
Fluid Level		8.00 ft			
BIT/CASING/TUBING STRING					
Bit Size		8.75 in			
From		5100.00 ft			
To		7050.00 ft			
Casing/Tubing Size		7 in			
Weight		29 lbm/ft			
Grade		P110			
From		0.00 ft			
To		7050.00 ft			
Max Recorded Temperatures		118.12 degF			
Logger on Bottom	Time	18-Oct-2023	22:45:00		
Unit Number	Location:	9113	Midland		
Recorded By		Ryan Ward			
Witnessed By		Sean Puryear			

Disclaimer

Contents

Well Sketch


Driller Depth
0.00 ft
3163.00 ft
5100.00 ft
Casing 13.375in
61lbm/ft
Open Hole 15in
Casing 9.625in
40lbm/ft
Open Hole 12.25in

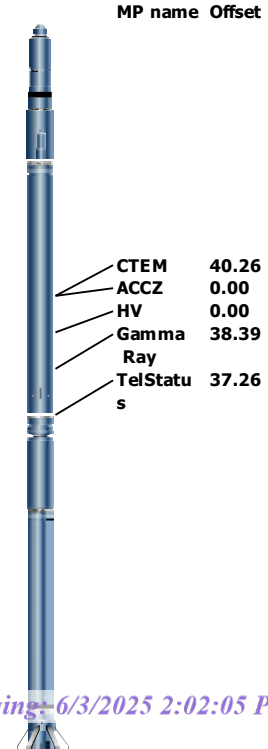


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	15	12.25	8.75			
Top Driller (ft)	0	3163	5100			
Top Logger (ft)	0	3163	5100			
Bottom Driller (ft)	3163	5100	7050			
Bottom Logger (ft)	3163	5100	7050			
Casing						
Size (in)	13.375	9.625	7			
Weight (lbm/ft)	61	40	29			
Inner Diameter (in)	12.515	8.835	6.184			
Grade	L80	J55	P110			
Top Driller (ft)	0	0	0			
Top Logger (ft)	0	0	0			
Bottom Driller (ft)	3163	5100	7050			
Bottom Logger (ft)	3163	5100	7050			

Remarks and Equipment Summary

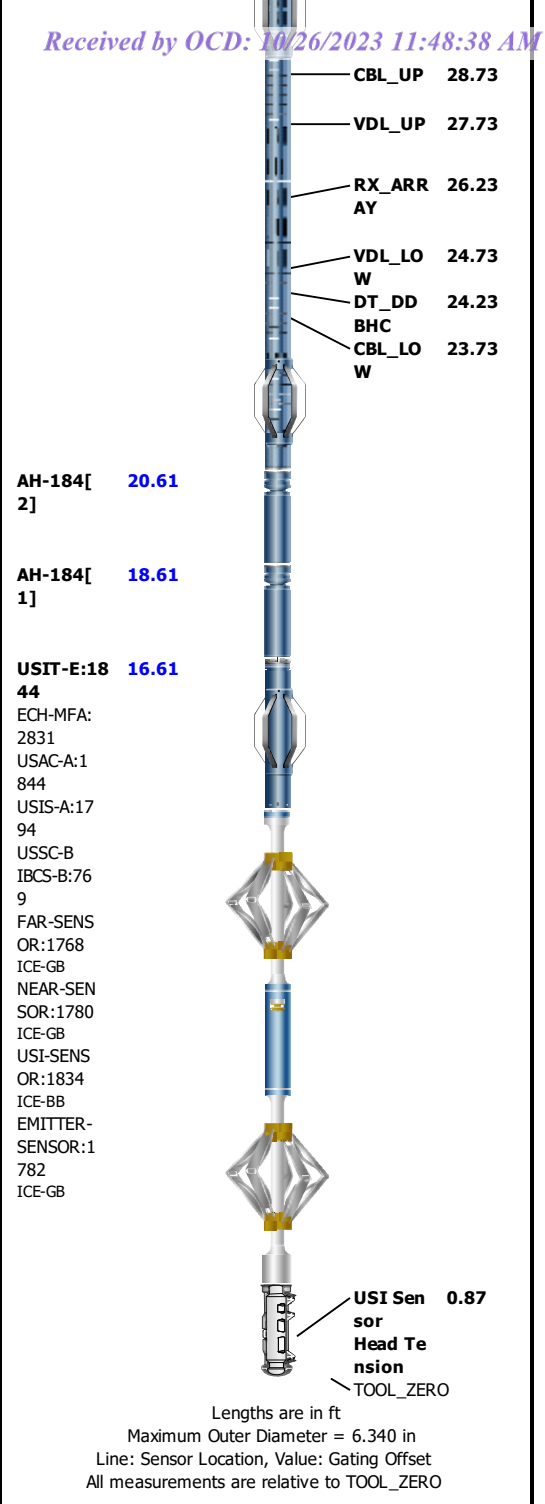
1A: Toolstring



Equip name	Length	MP name	Offset
LEH-QT	**47.25**		
LEH-QT			
EDTC-B:8220	**43.76**		
EDTH-B:9373			
EDTG-B:77125			
EDTC-B:8220			
AH-184[3]	**37.26**		
ASLT-B:8118	**35.26**		
ASLT-BB:8118			

1A: Remarks

Tool was run as per tool sketch
All logging intervals as per client request
Logging Objective: Cement Evaluation
Logging Resolution: IBC - 10deg 6in. ASLT - TT6_WF6
Expected Free-pipe amplitude 61mV +/= 6mV
Main pass logged with 1000psi surface induced pressure. Repeat pass logged with 0p
IBC Centralized with 2x In-line centralizers & 6.35in GEMCO on USAC
ASLT Centralized with 2x 6.35in GEMCOs
Chrome casing from 5200ft - 5573ft



Lengths are in ft
Maximum Outer Diameter = 6.340 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

	1A		
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6433		
Calibration Date	03-MAY-2023		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-32 AS-XS		
Wheel Correction 1	1		
Wheel Correction 2	0		
Tension Device			
Type	CMTD-BA		

Serial Number	2295		
Calibration Date	21-MAY-2023		
Calibrator Serial Number	1035		
Number of Calibration Points	10		
Calibration Root Mean Square Error	11		
Calibration Peak Error	21		

Logging Cable

Type	7-32AS-XS		
Serial Number	0062254083		
Length	29000.00 ft		
Conveyance Type	Wireline		
Rig Type			

1A:Depth Control Parameters

Log Sequence	First Log In the Well
Rig Up Length At Surface	
Rig Up Length At Bottom	
Rig Up Length Correction	
Stretch Correction	
Tool Zero Check At Surface	

Depth Control Remarks

Schlumberger depth control procedures followed

IDW used as primary depth control system

Z-Chart used as secondary depth control system

Log correlated to GR provided by client

1A

Main Pass 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Main[5]:Up	Up	25.85 ft	6953.92 ft	18-Oct-2023 10:50:19 PM	19-Oct-2023 1:52:27 AM	ON	-6.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Main[5]:Up:S014

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:58:16

TIME_1900 - Time Marked every 60.00 (s)

BIEP - Bond Index Event Pips ASLT-B

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Transit Time for CBL (TT) ASLT-B
400 us 200

Casing Collar Locator Ultrasonic (CCLU) USIT-E
-15 in 5

Cable Tension (TENS)
0 lbf 5000

CBL Amplitude (CBL) ASLT-B
0 mV 10

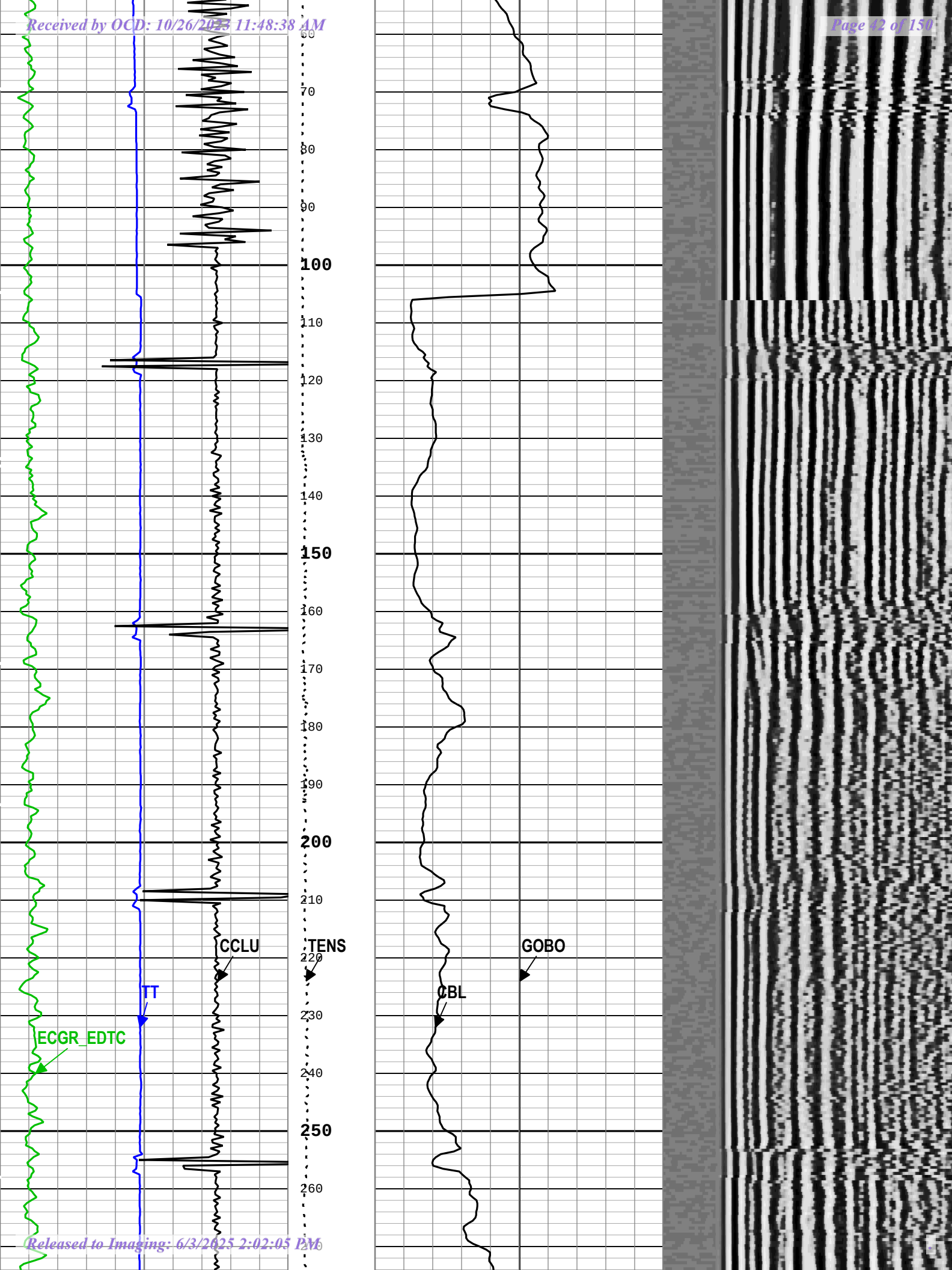
CBL Amplitude (CBL) ASLT-B
0 mV 100

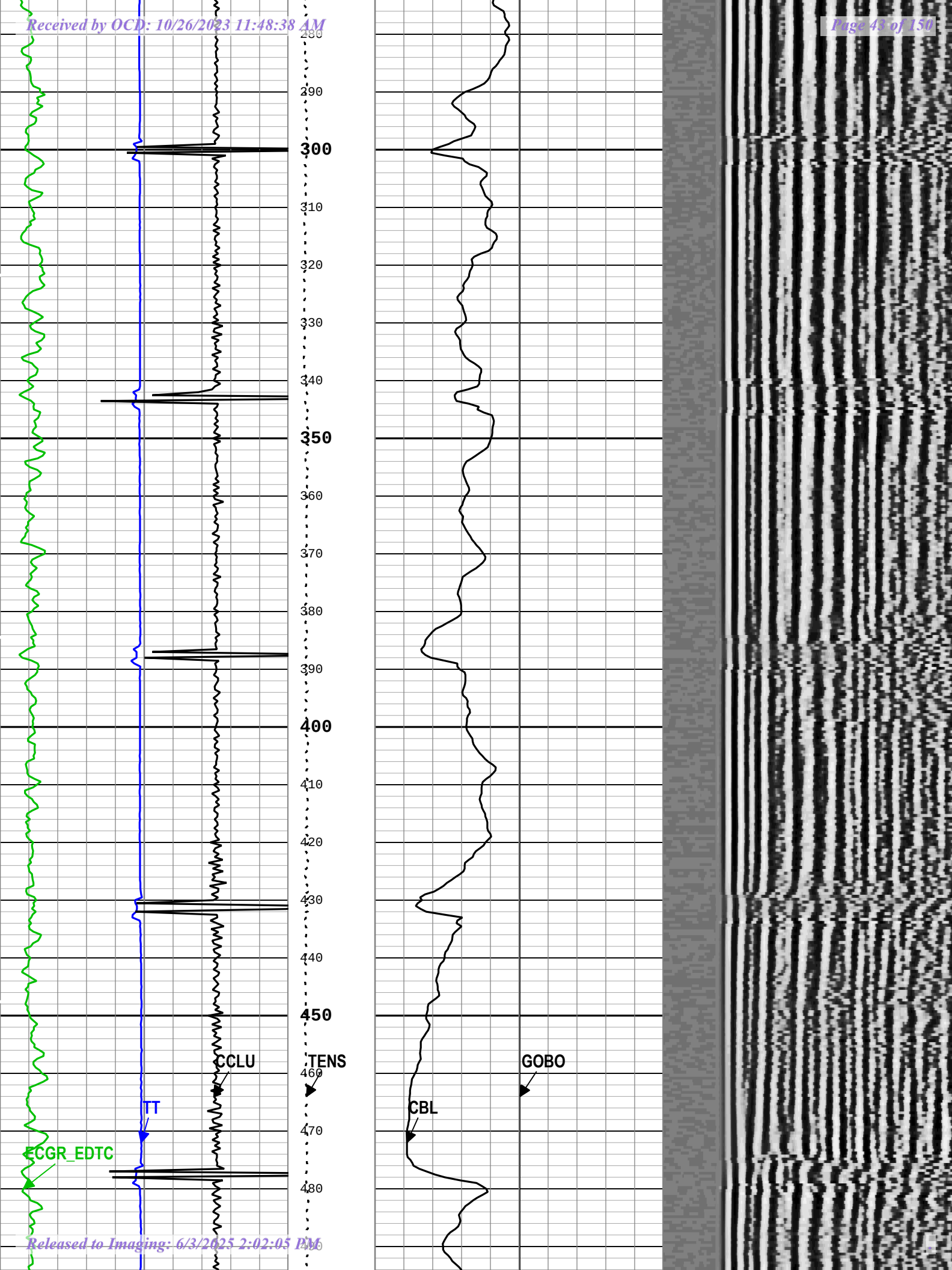
Good Bond (GOBO) ASLT-B
0 mV 10

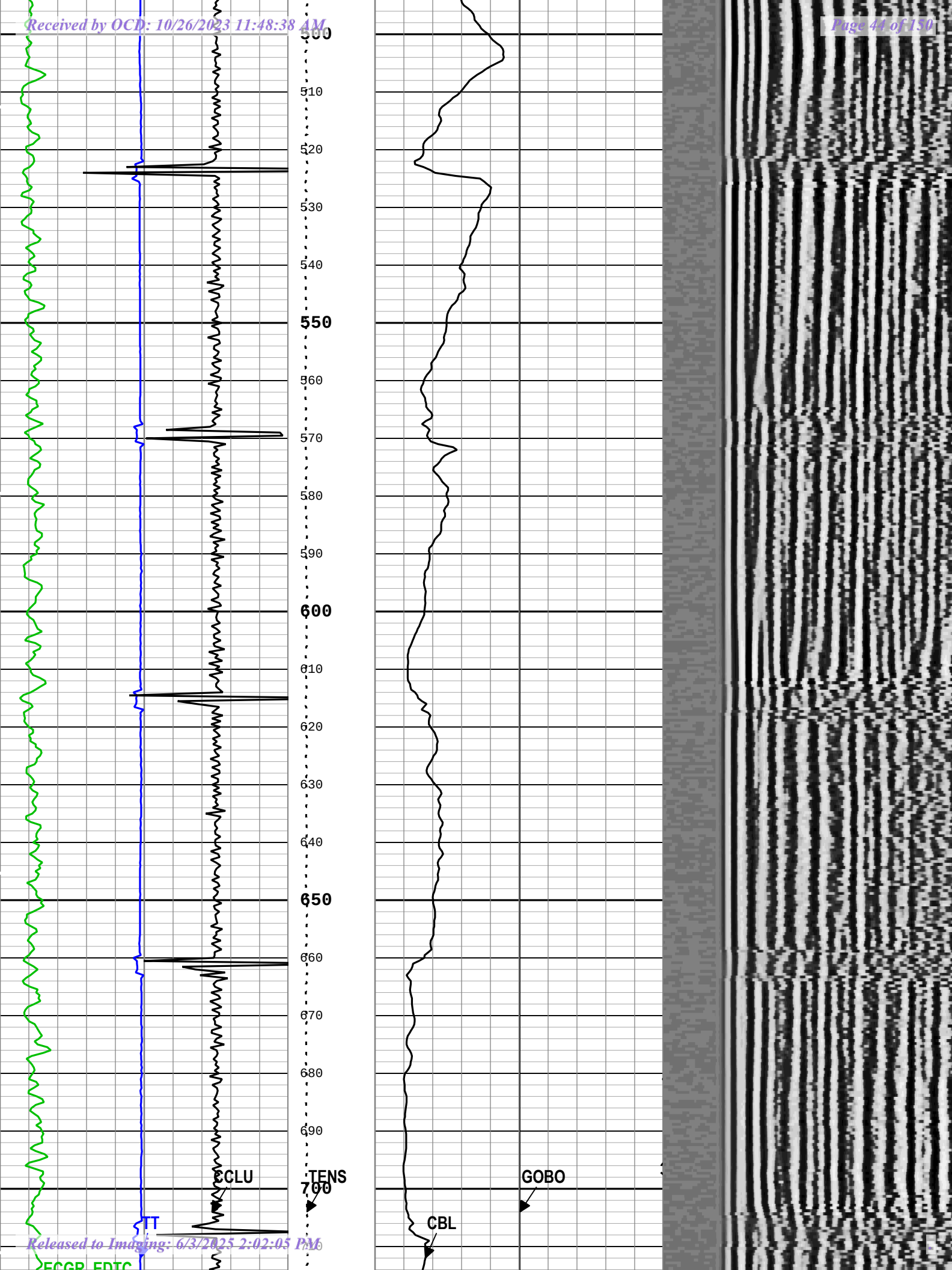
GoodBond From CBL to GOBO

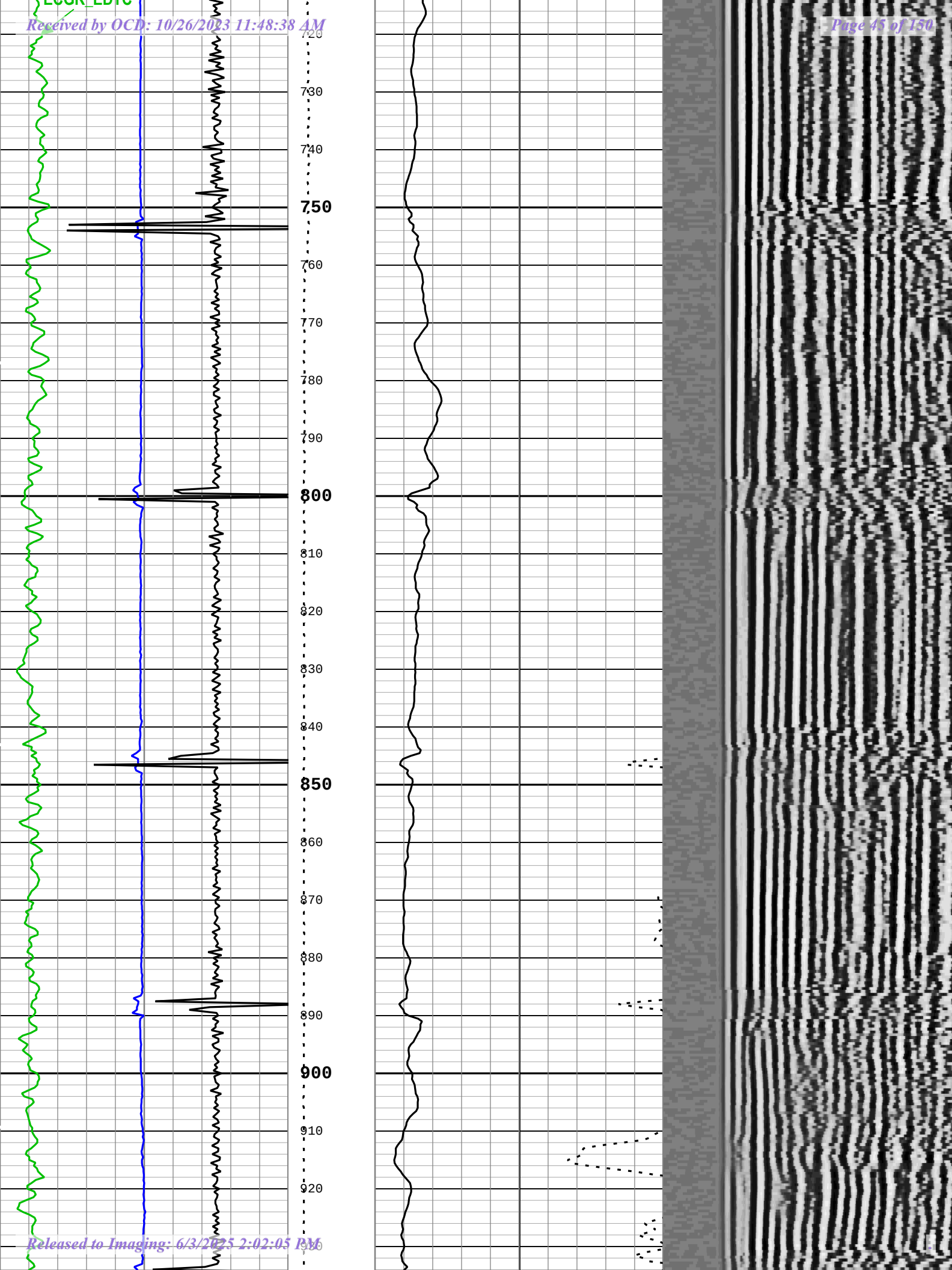
Min Amplitude Max

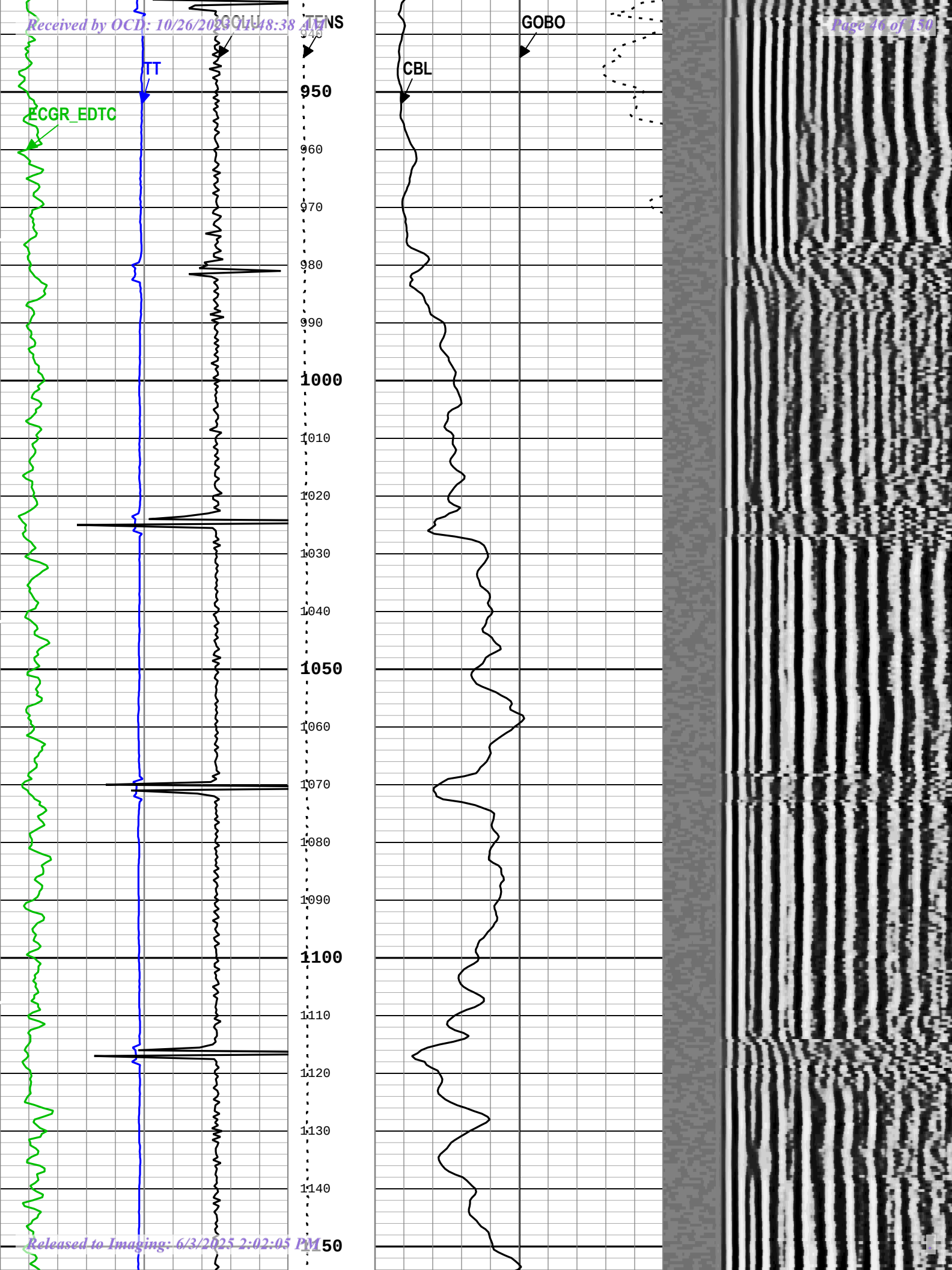
VDL VariableDensity (VDL) ASLT-B
200 us 1200

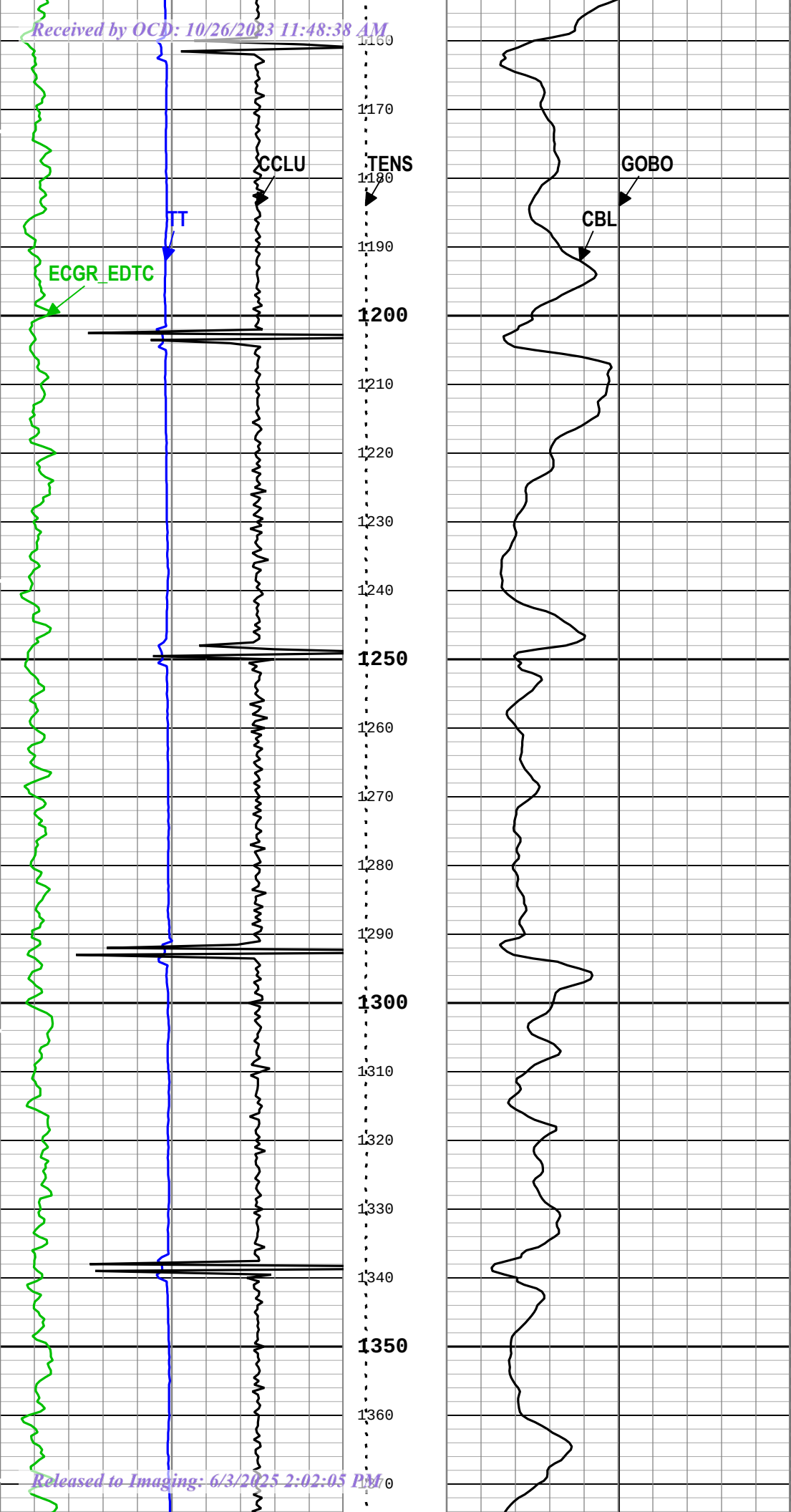


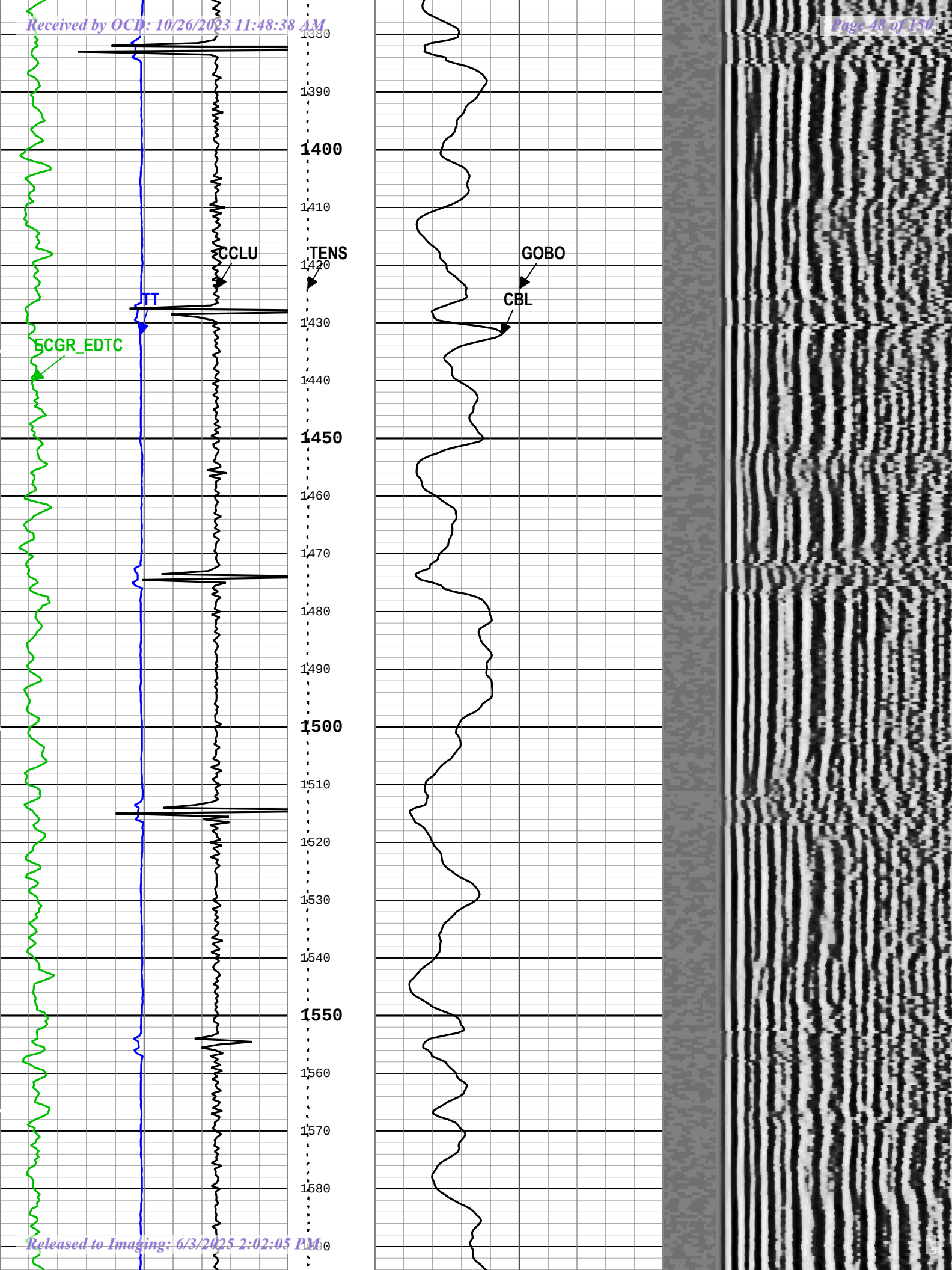


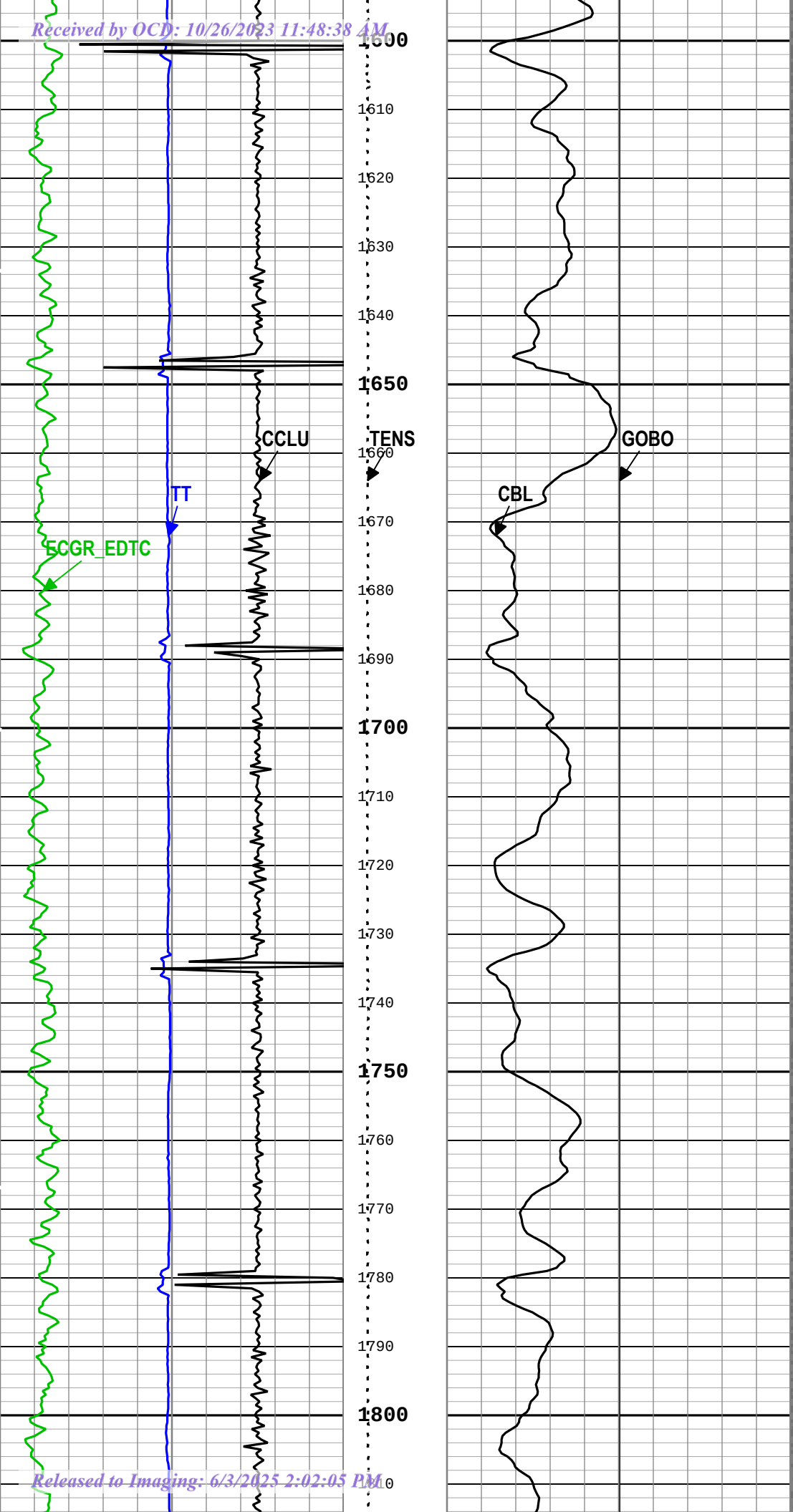


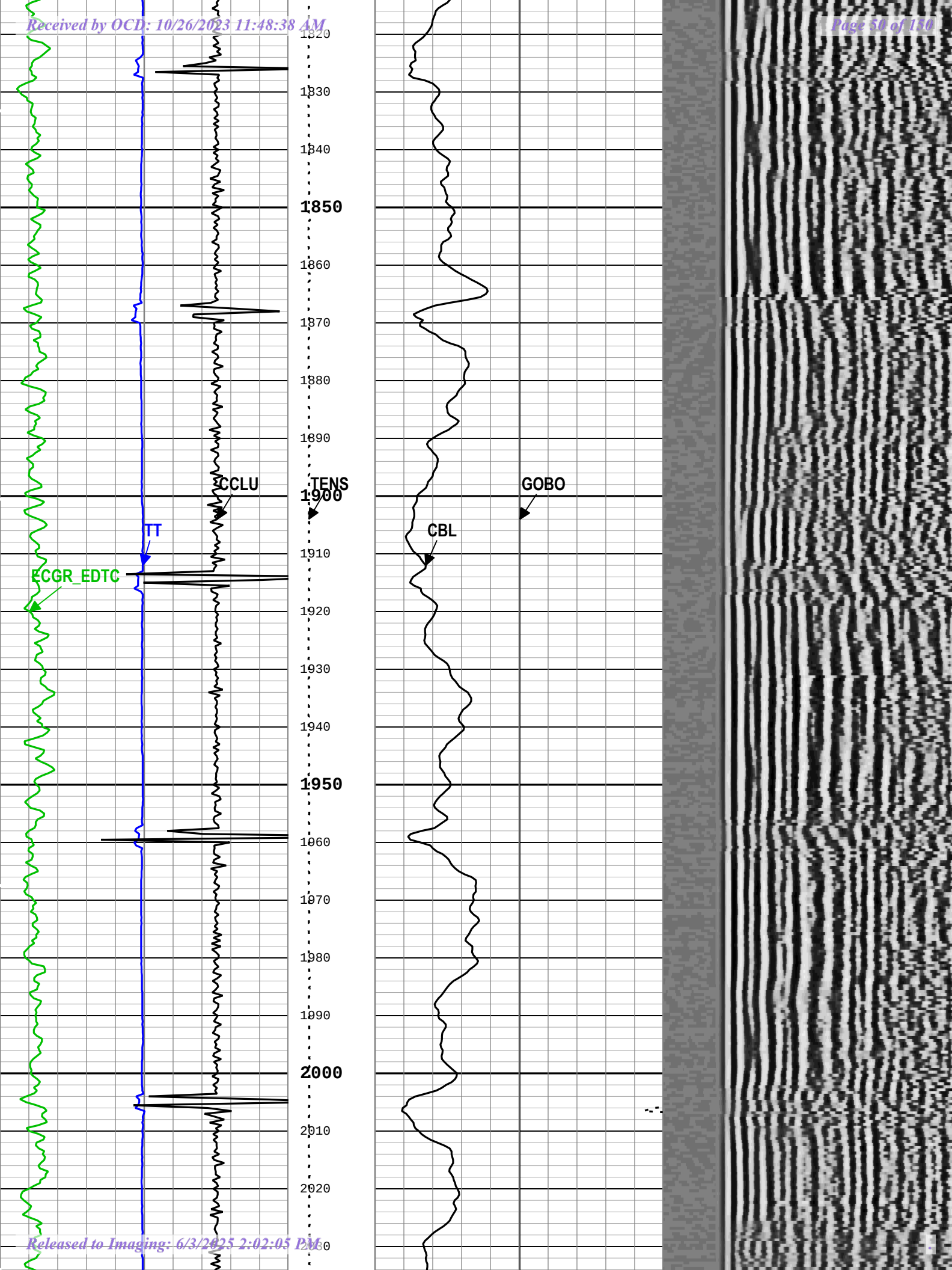


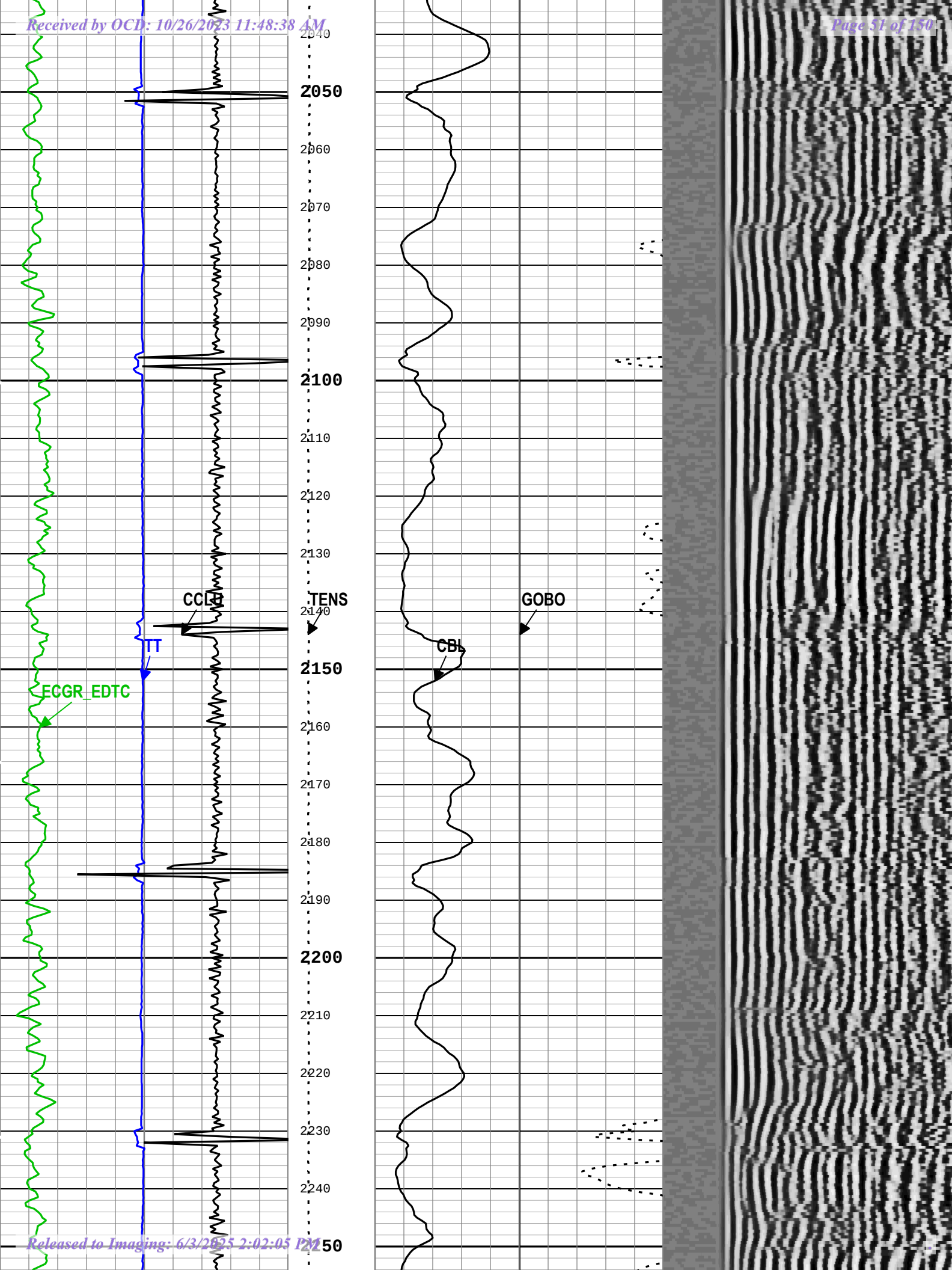


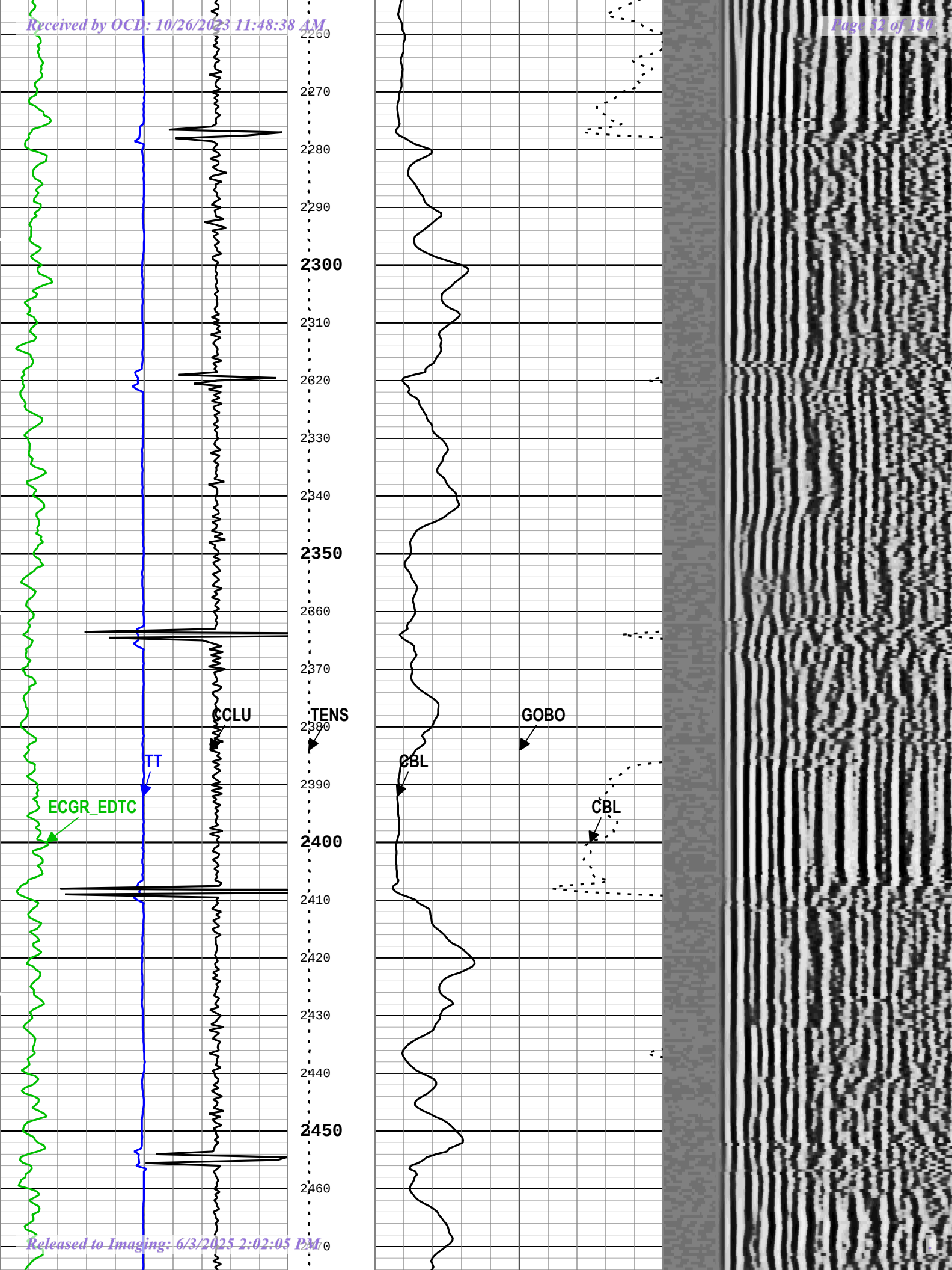








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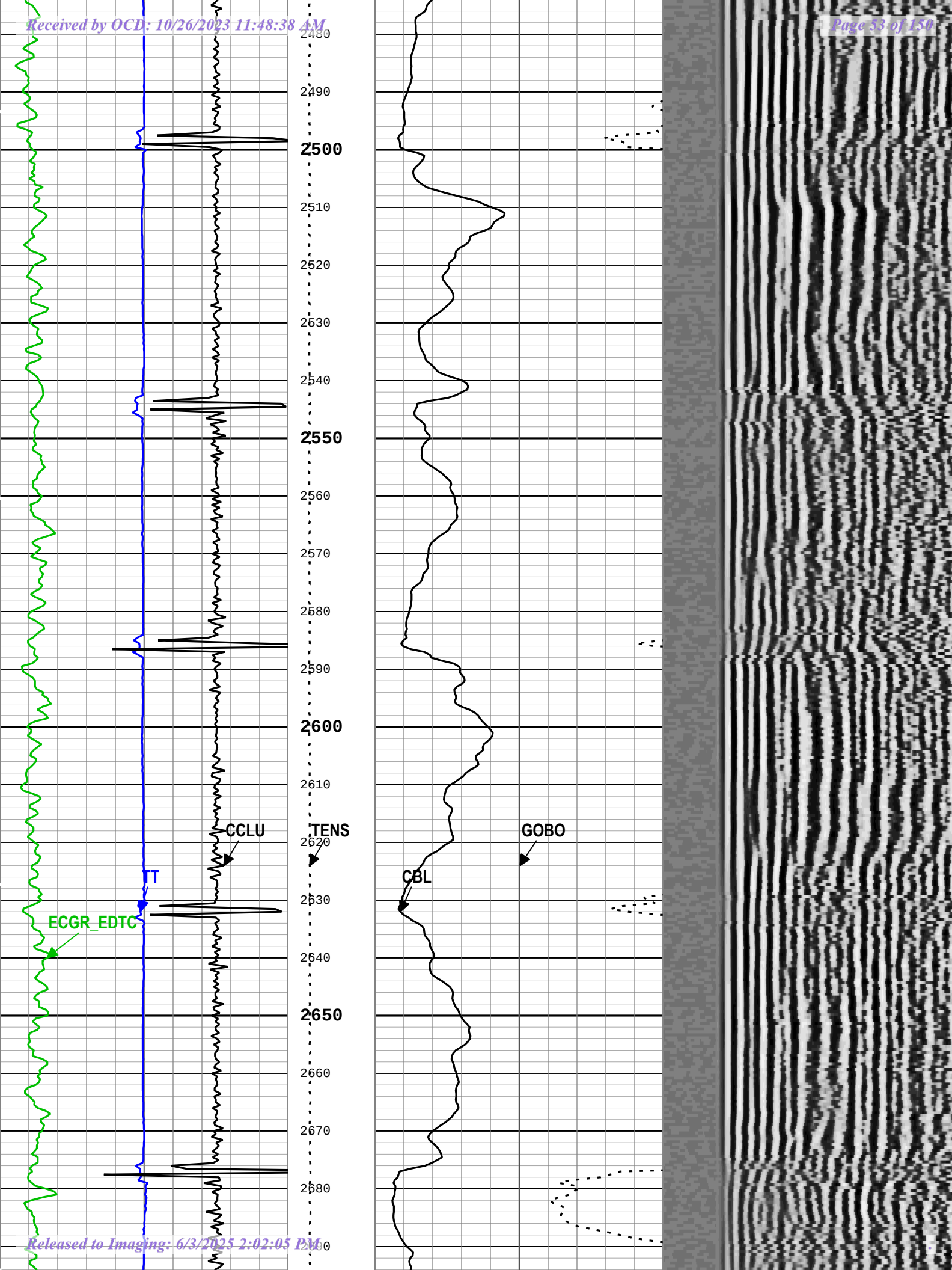

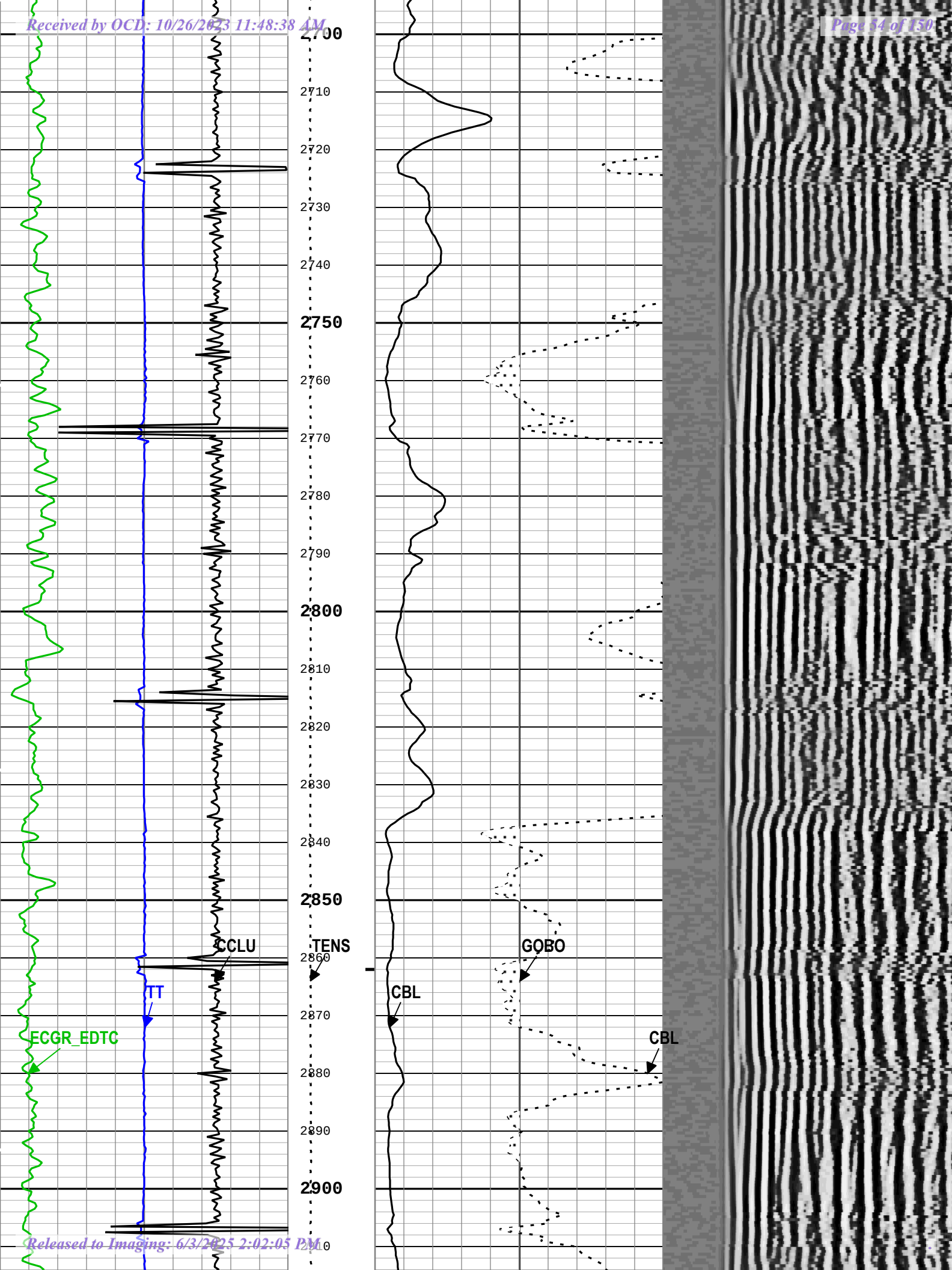

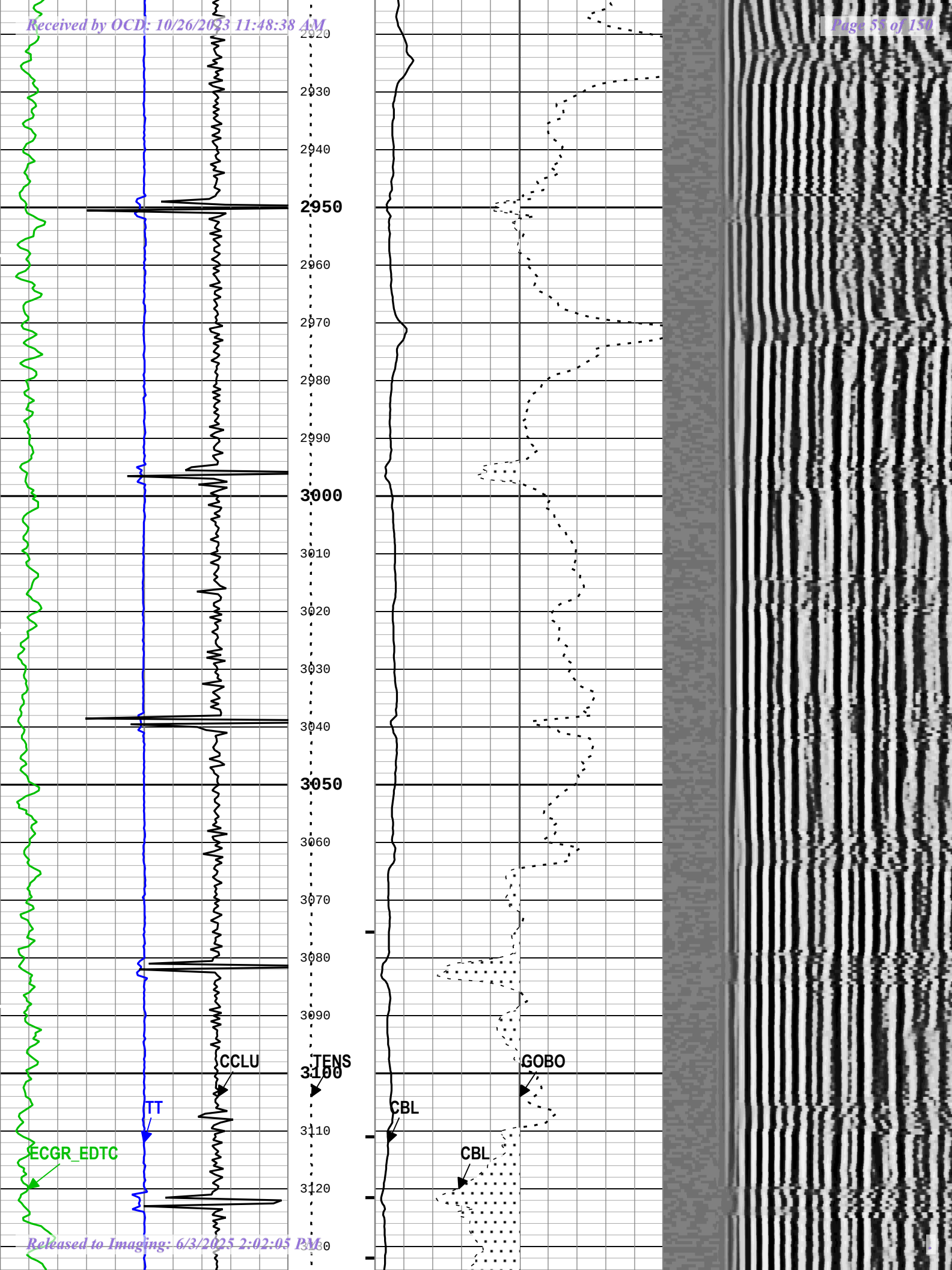

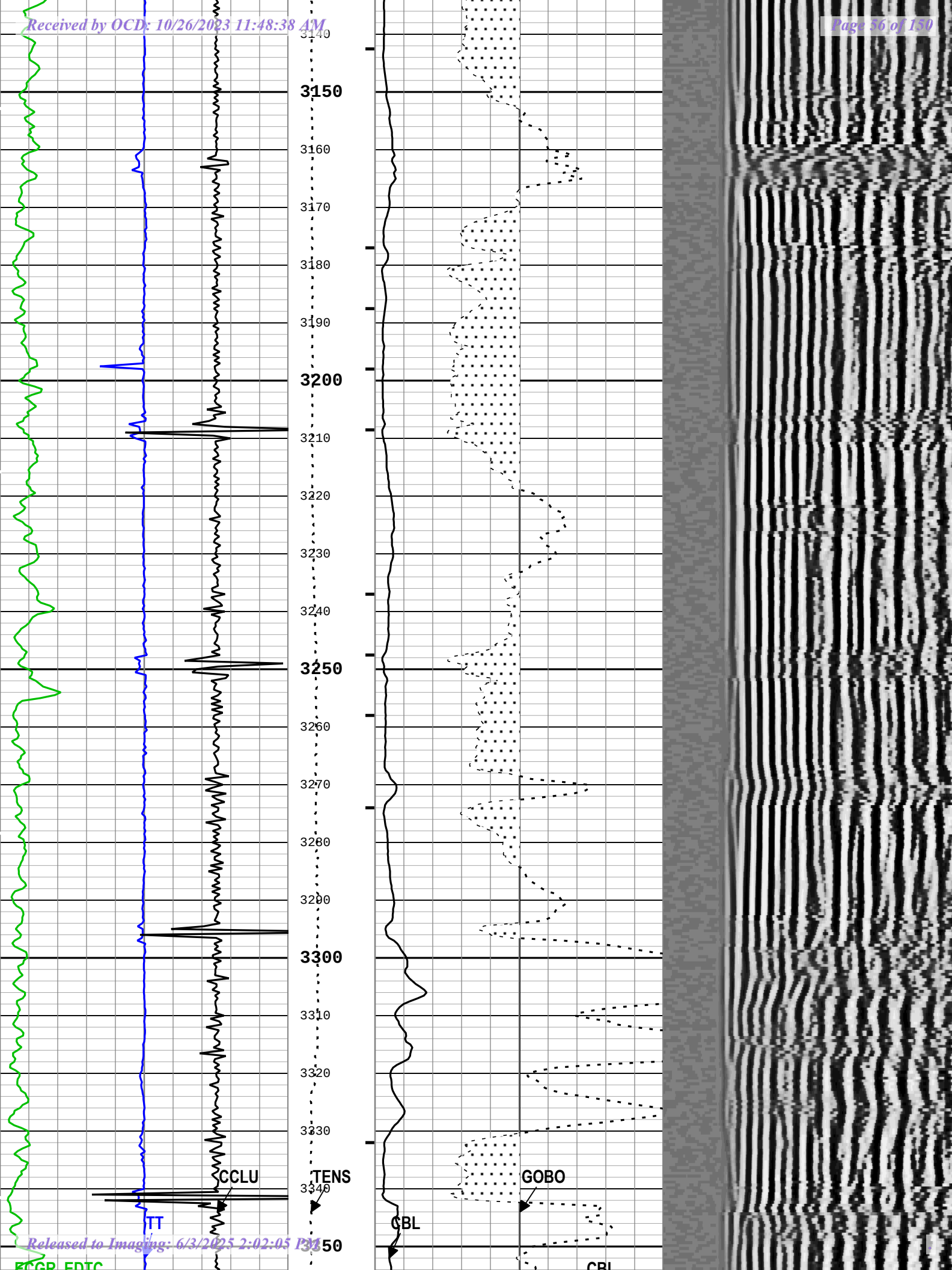

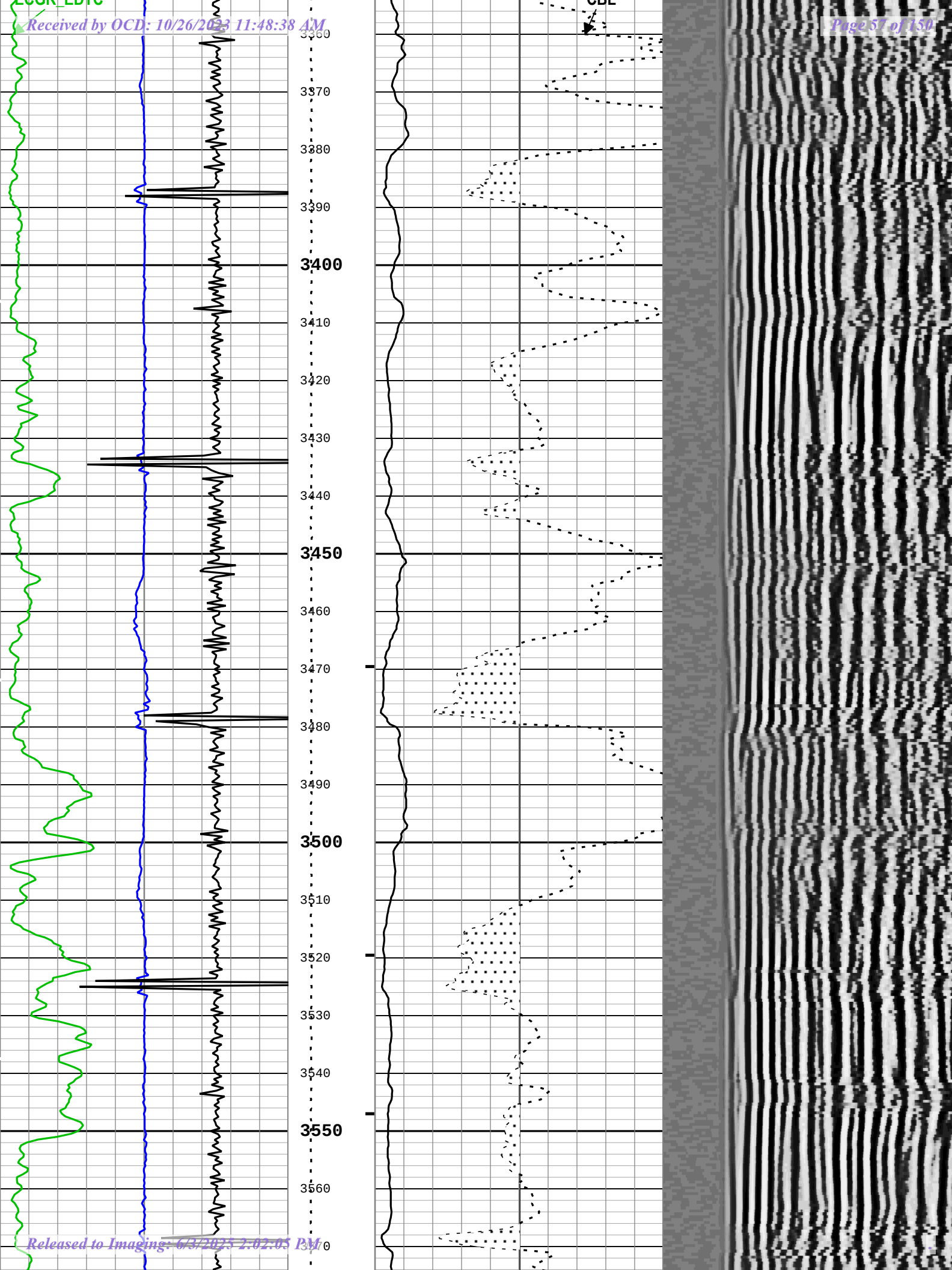

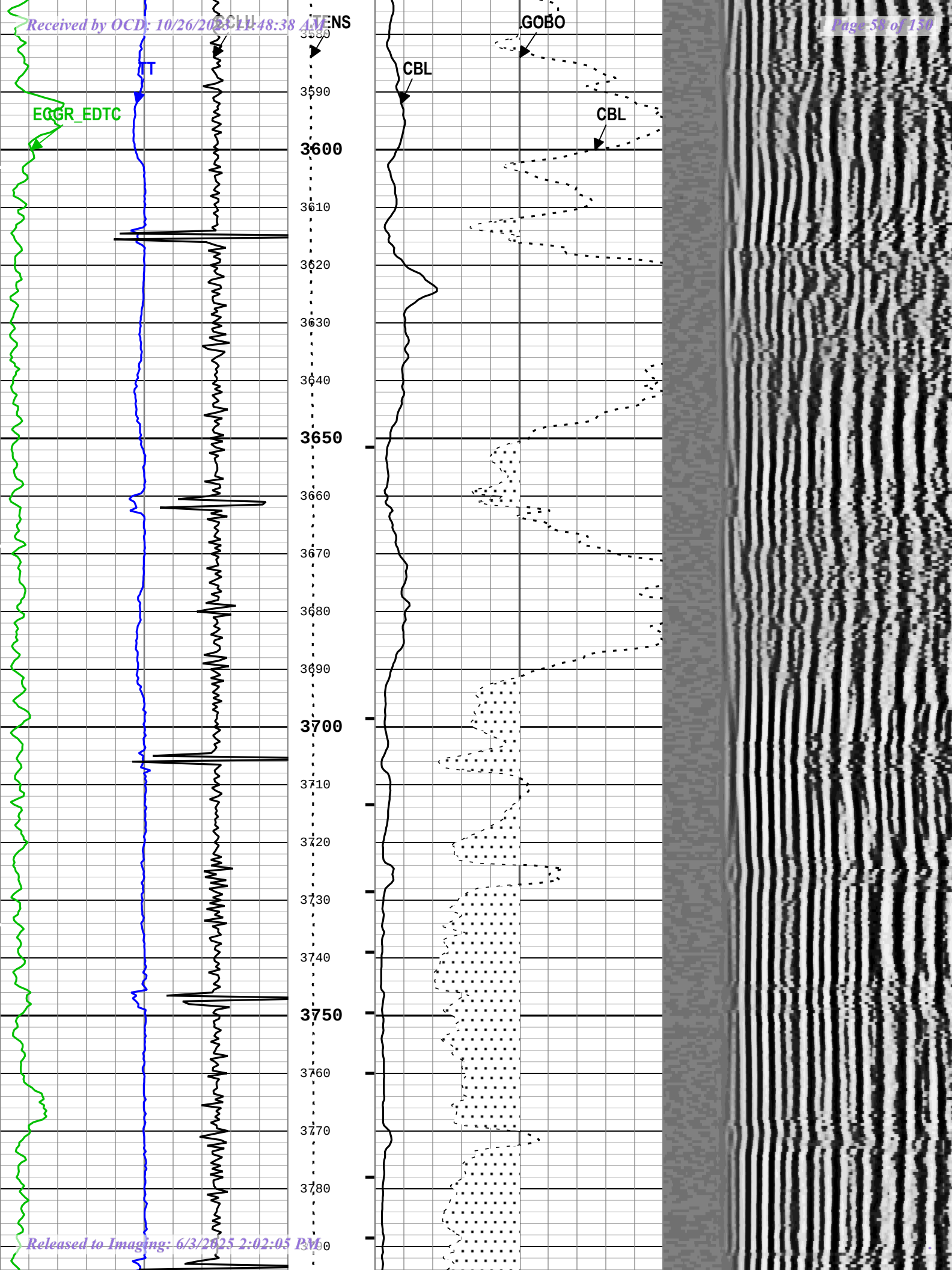

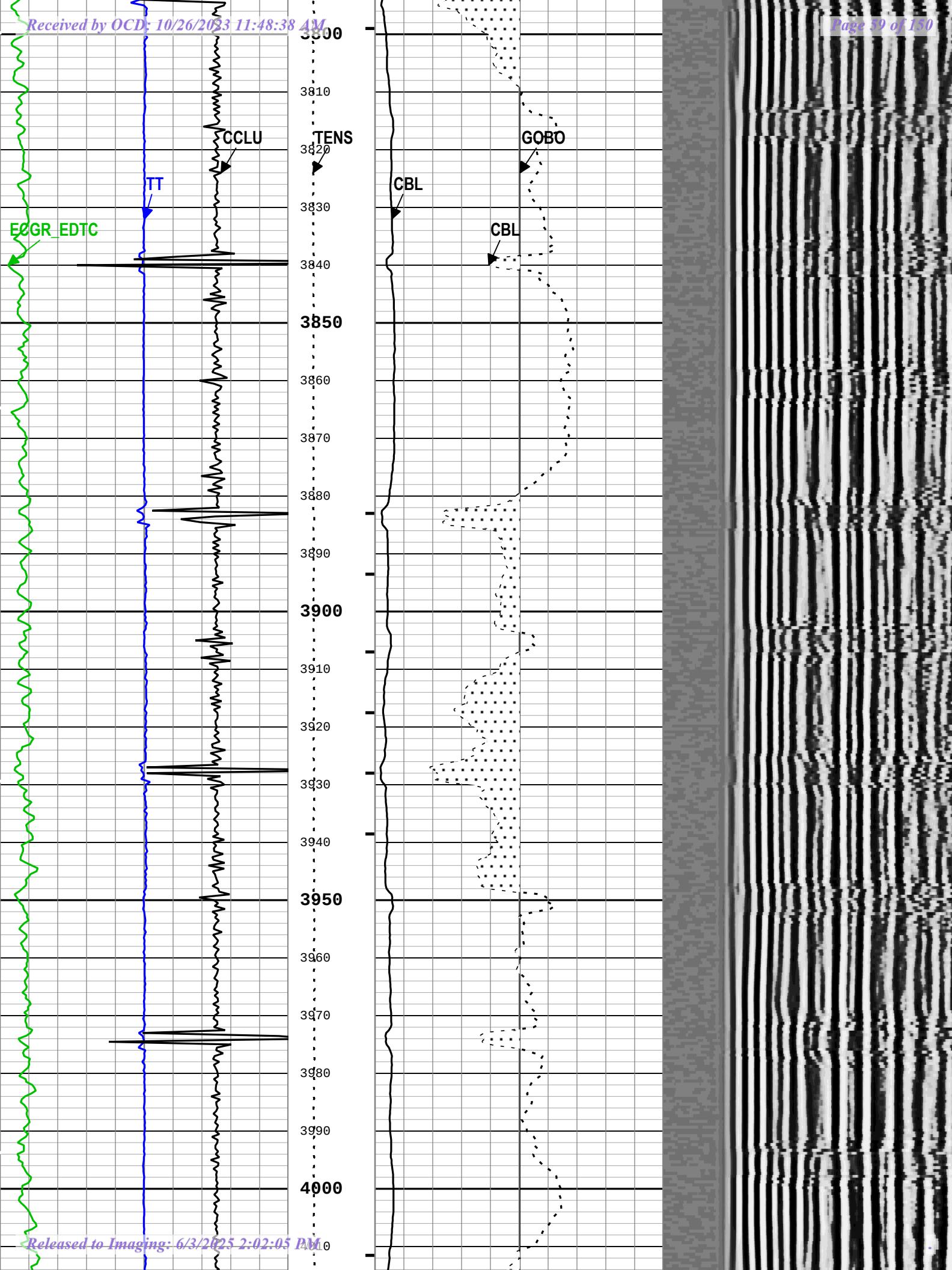

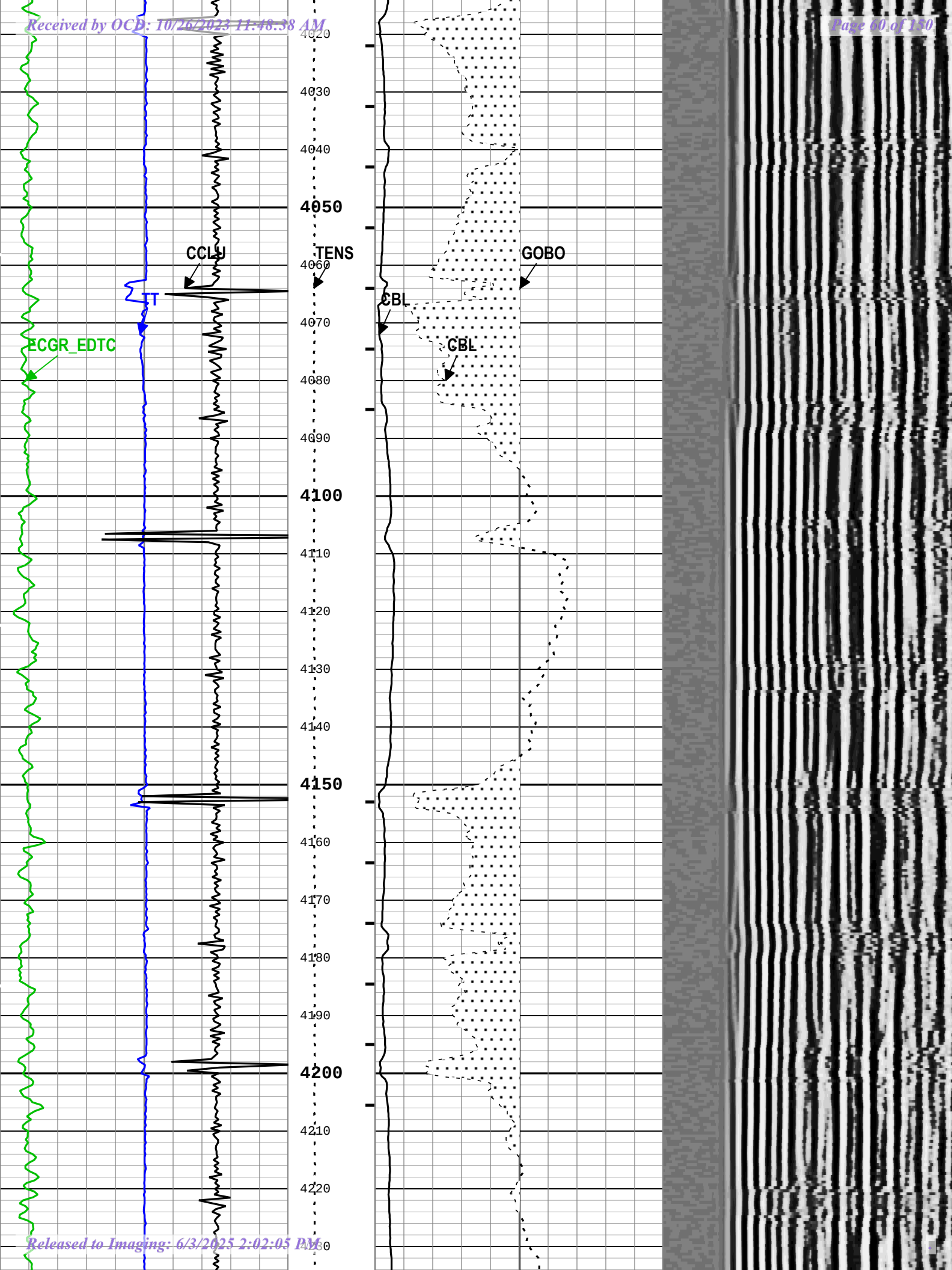

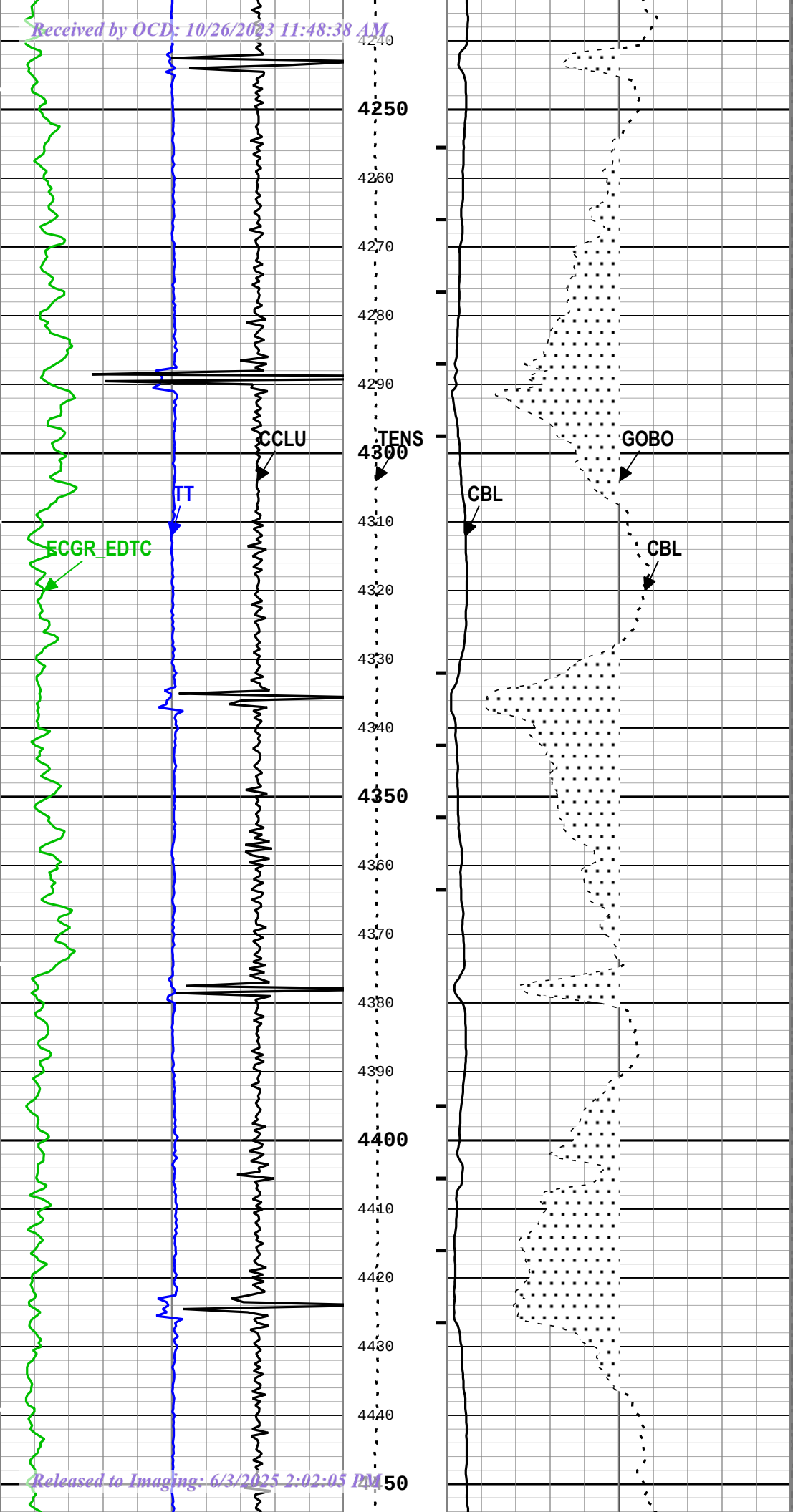

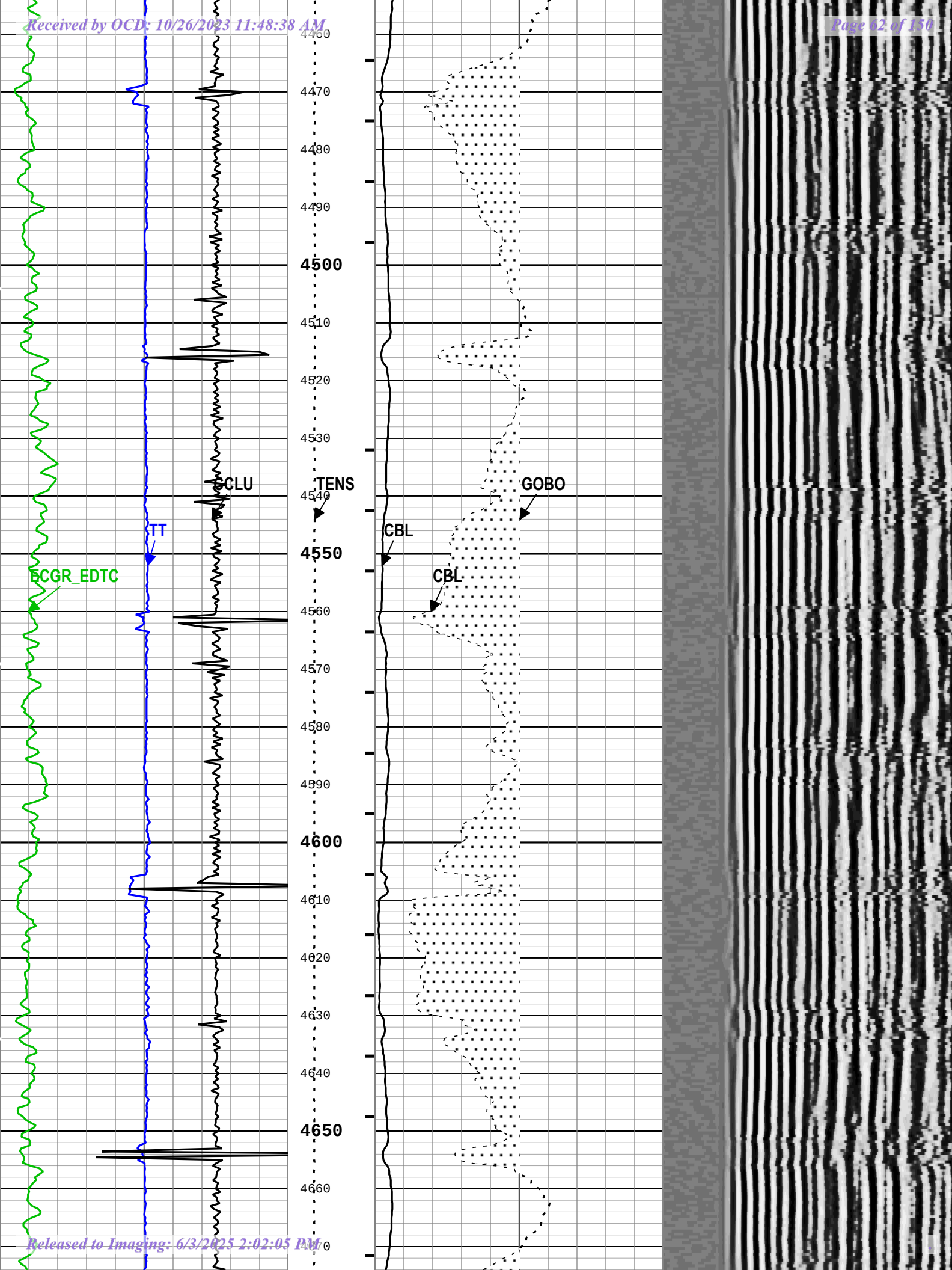

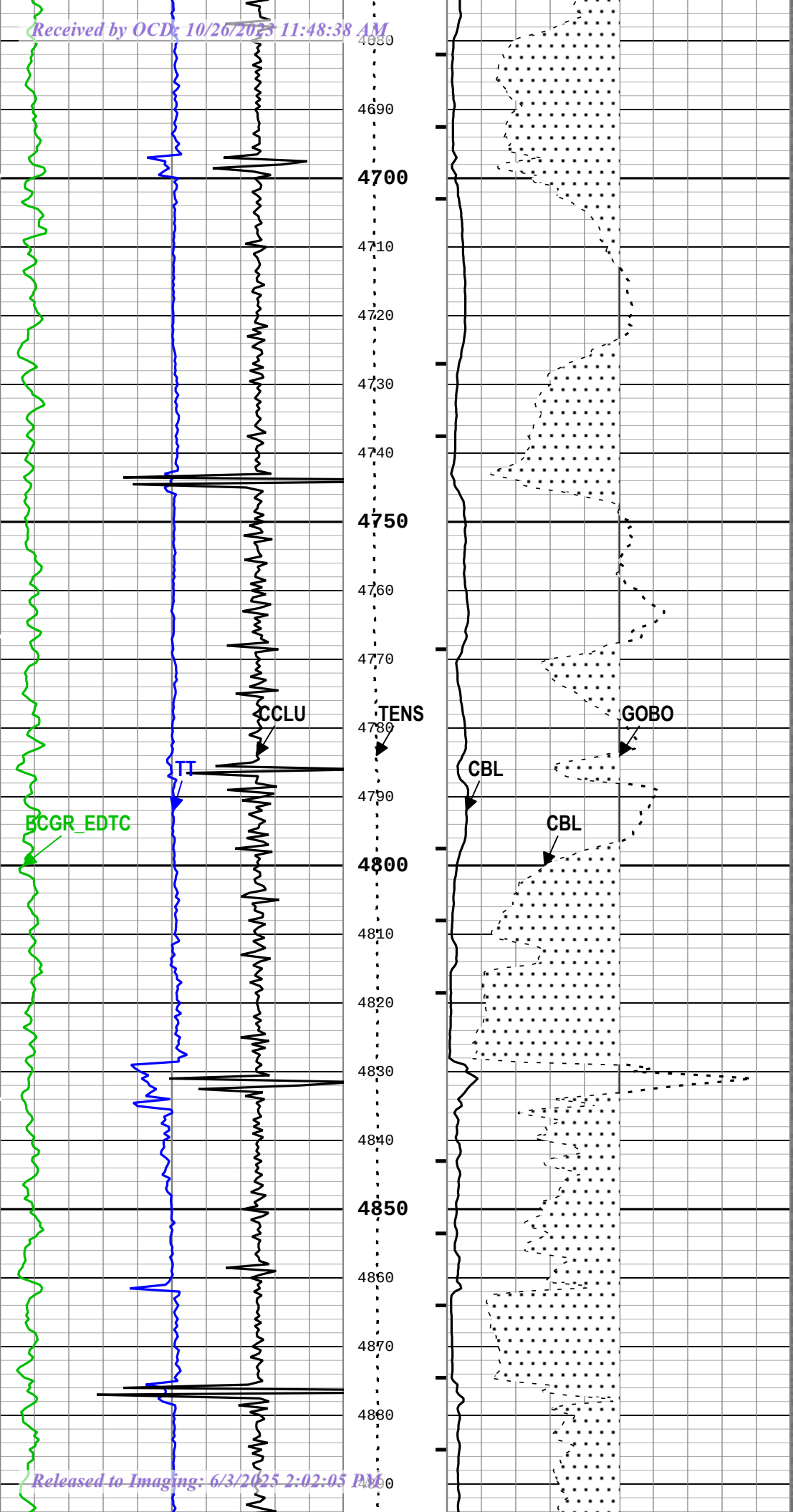

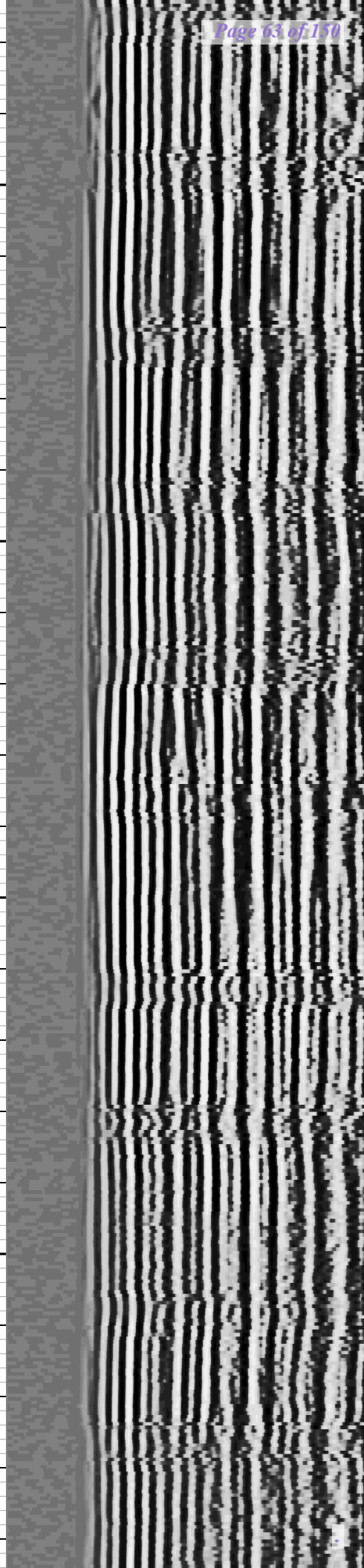

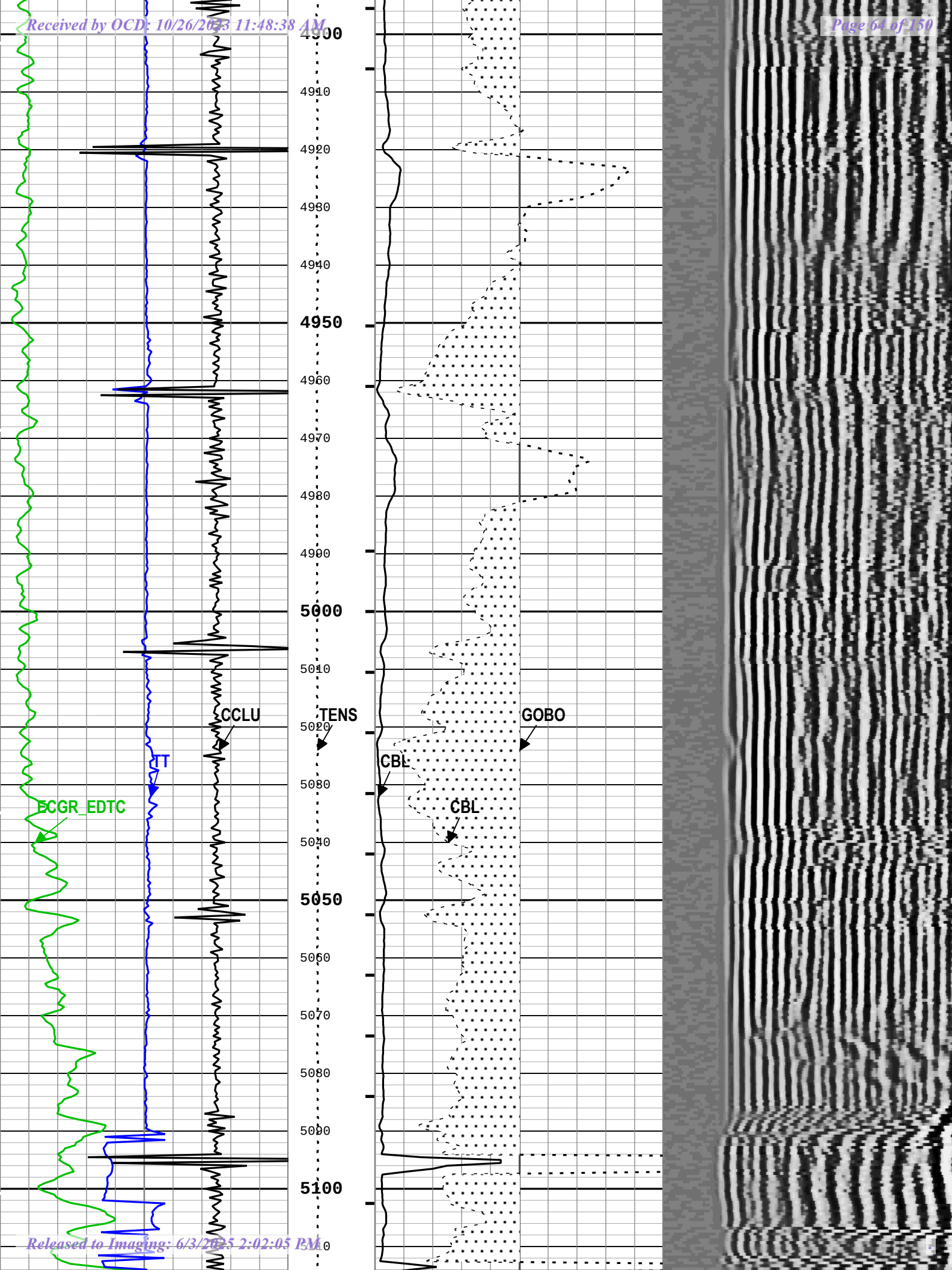

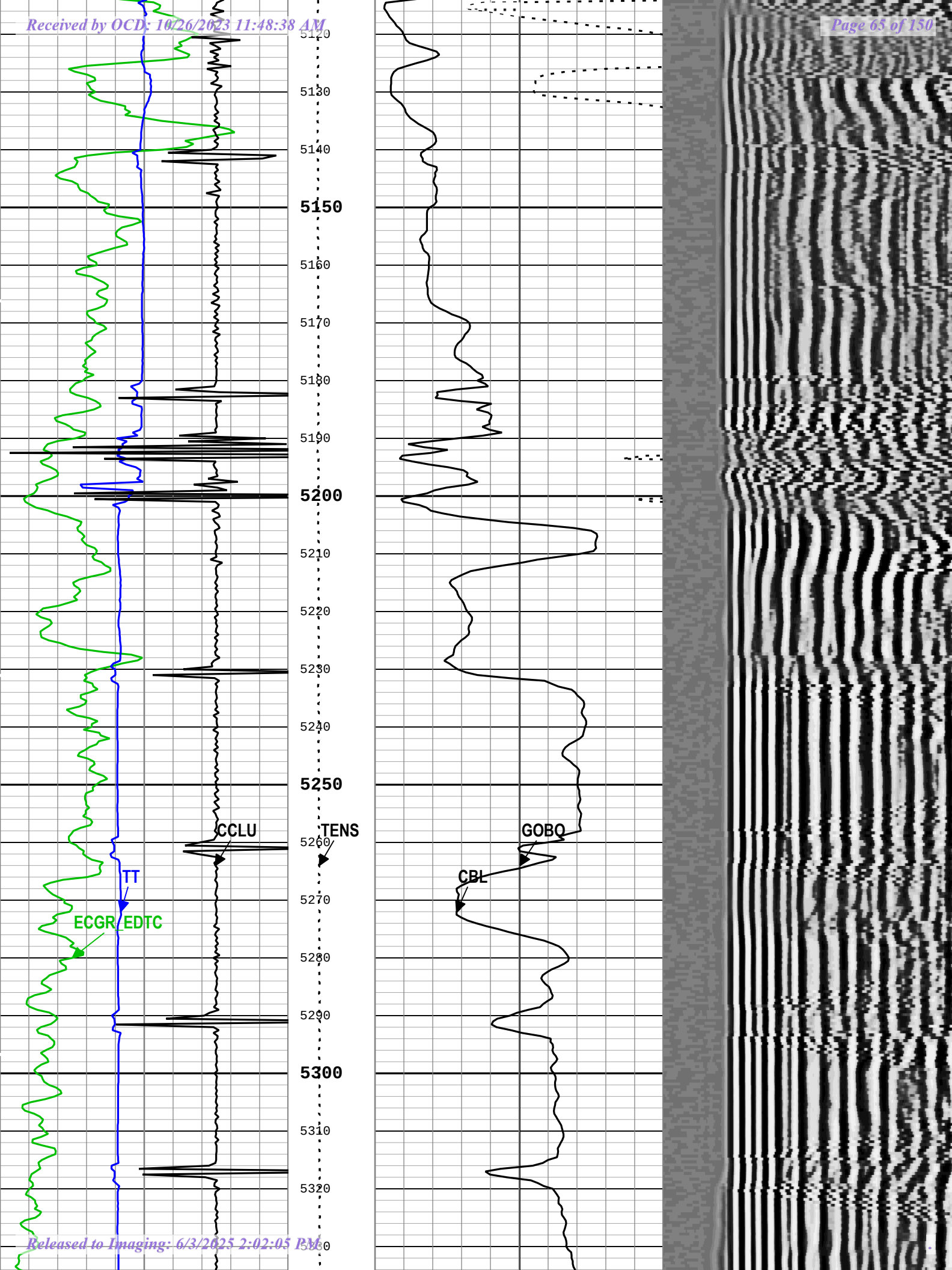

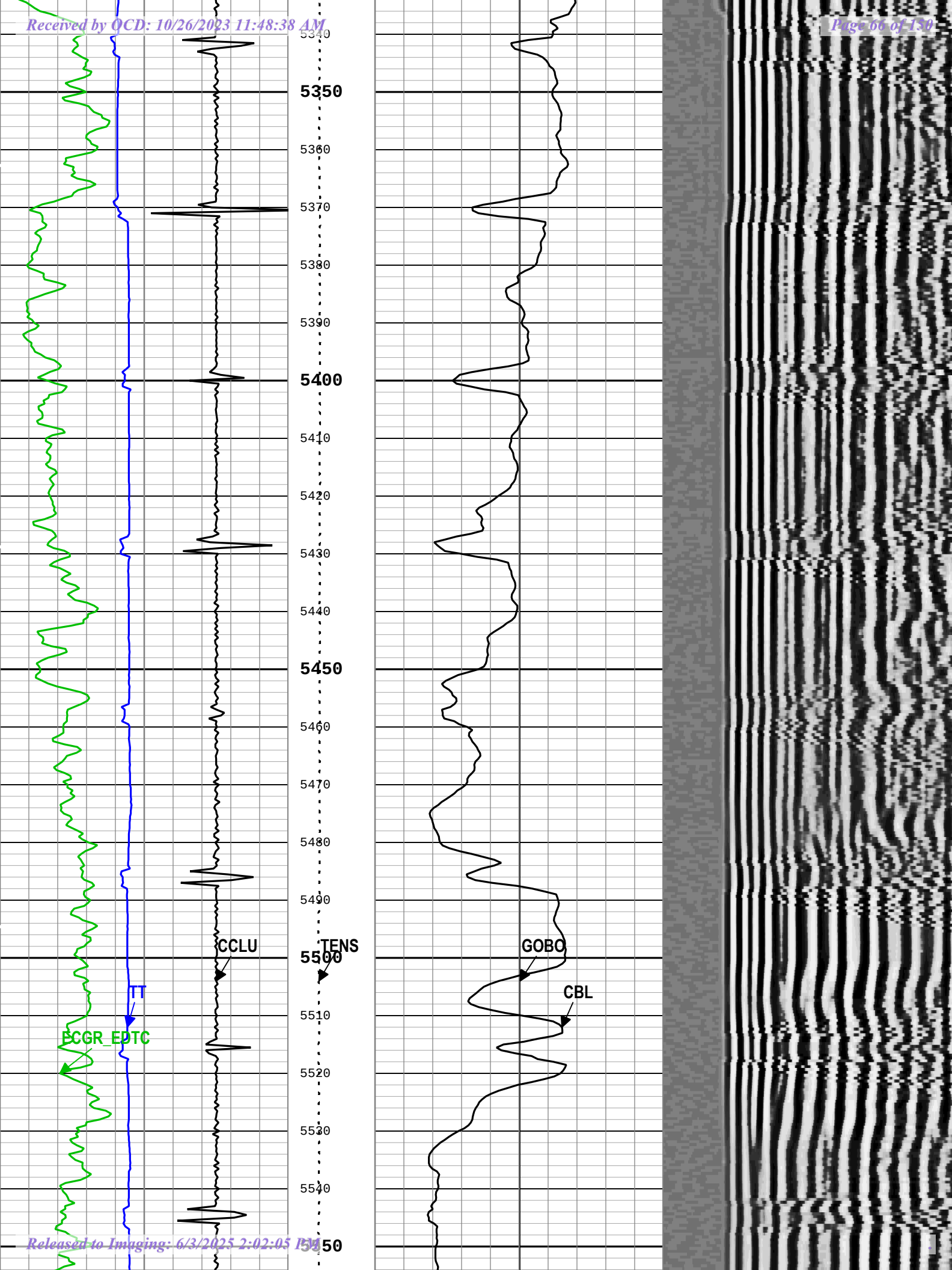

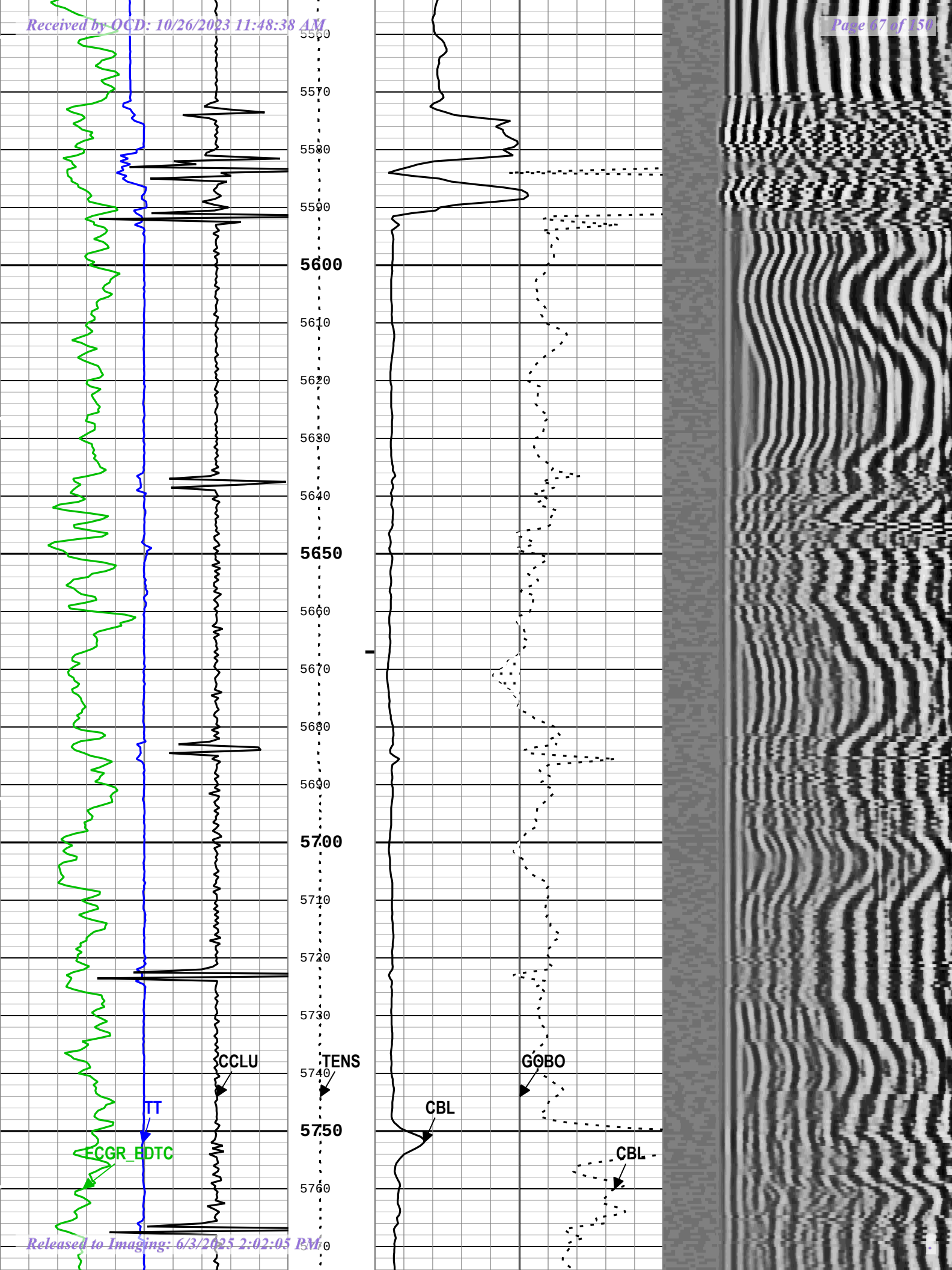

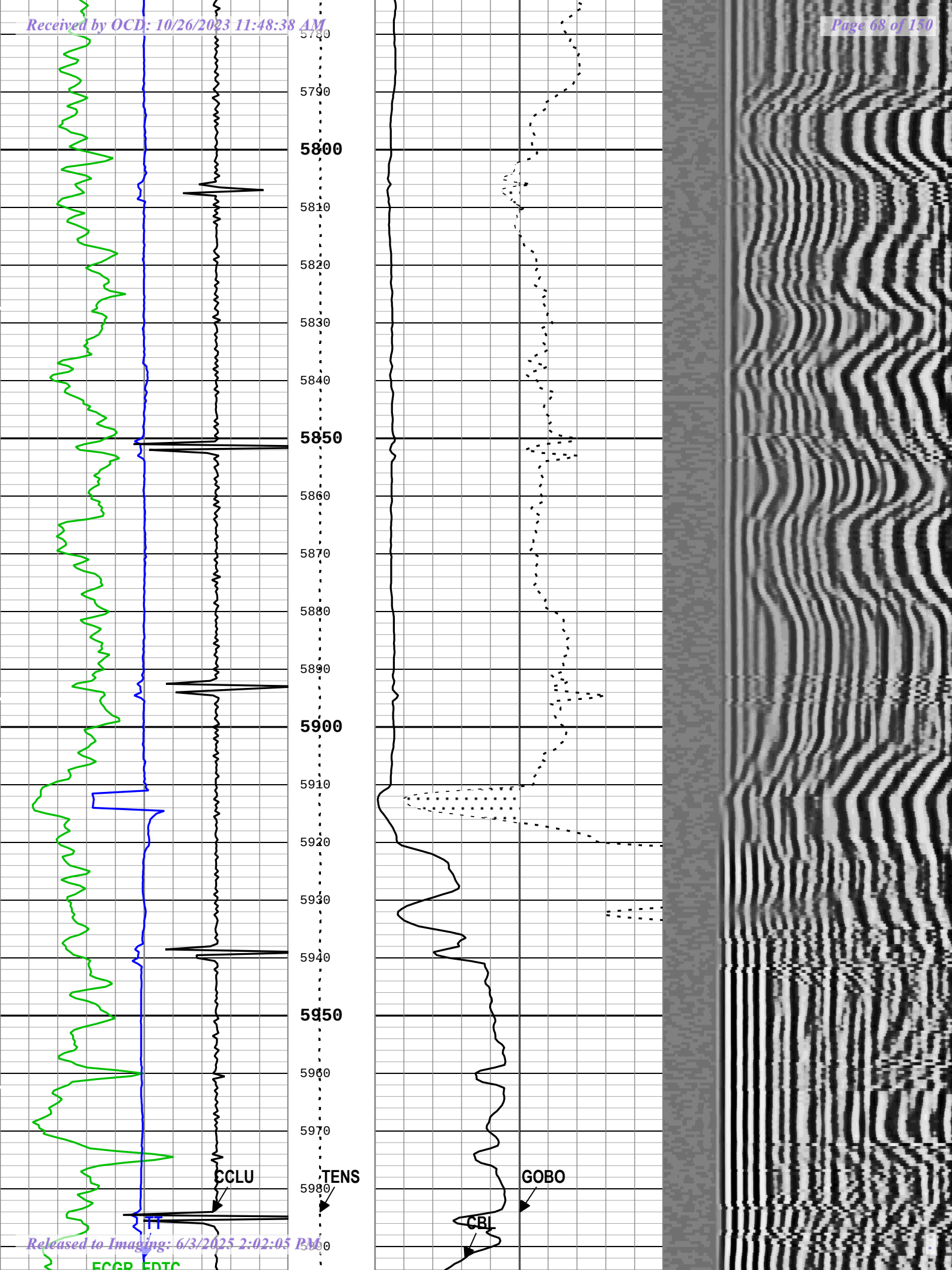

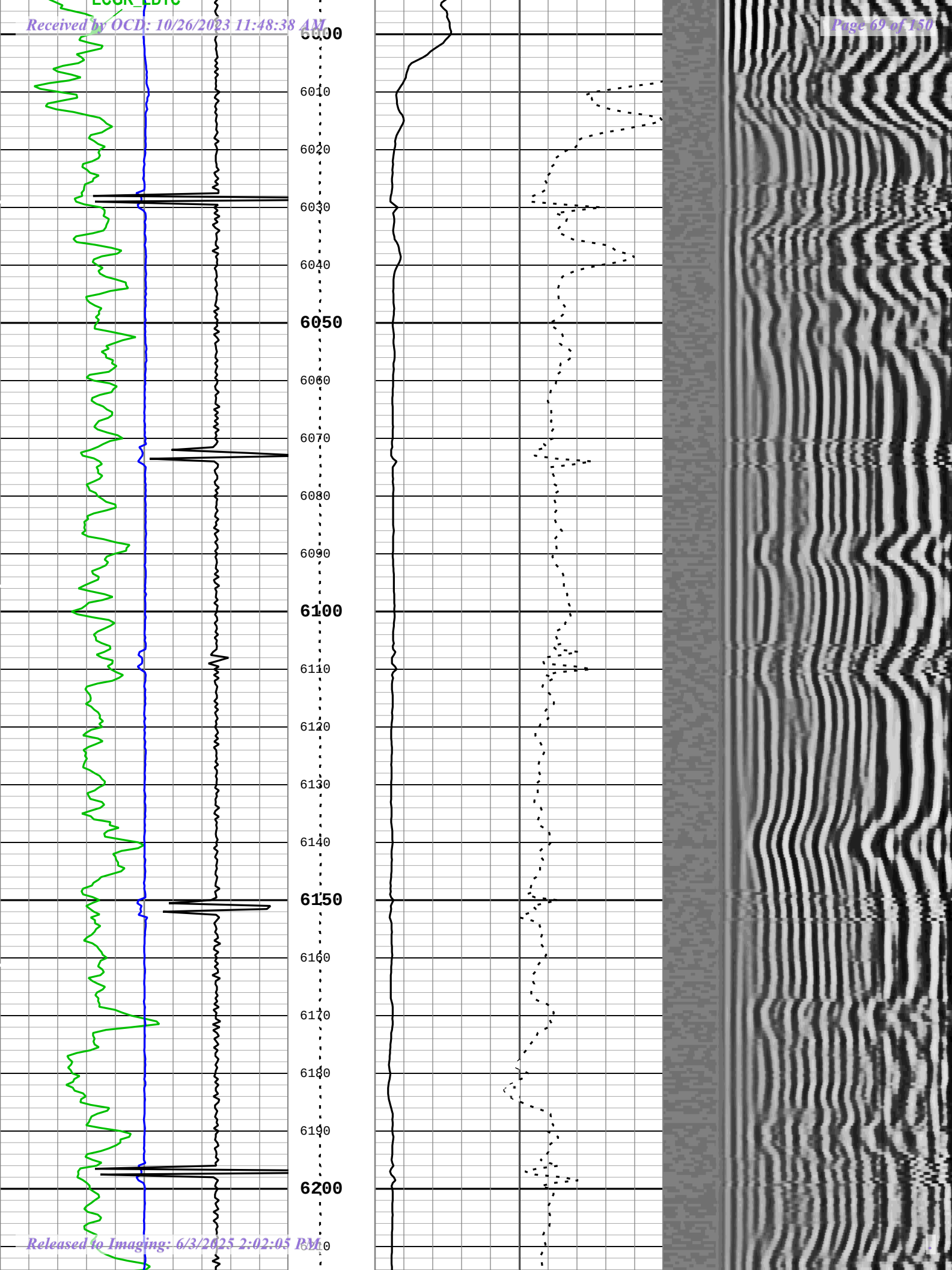

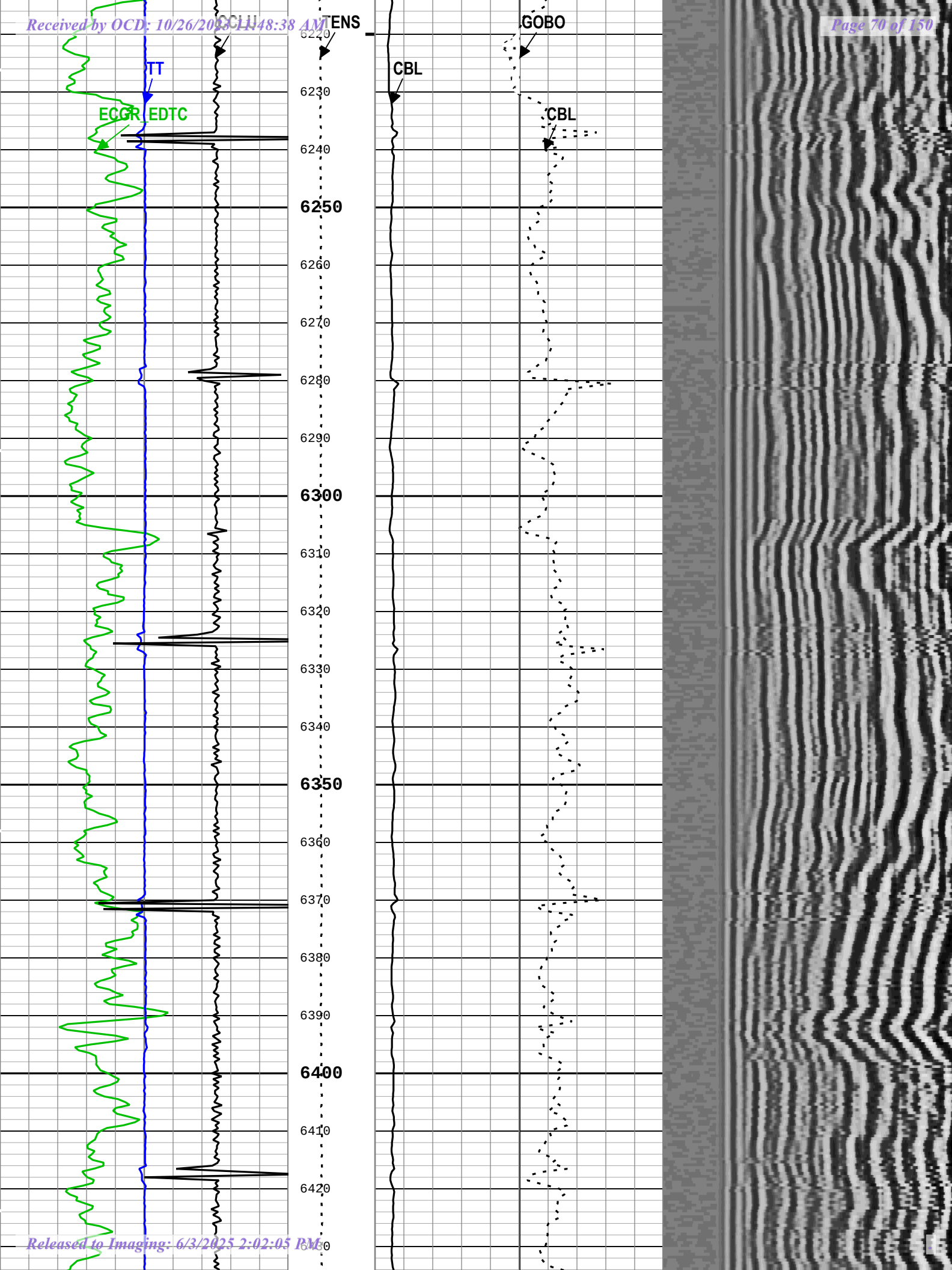

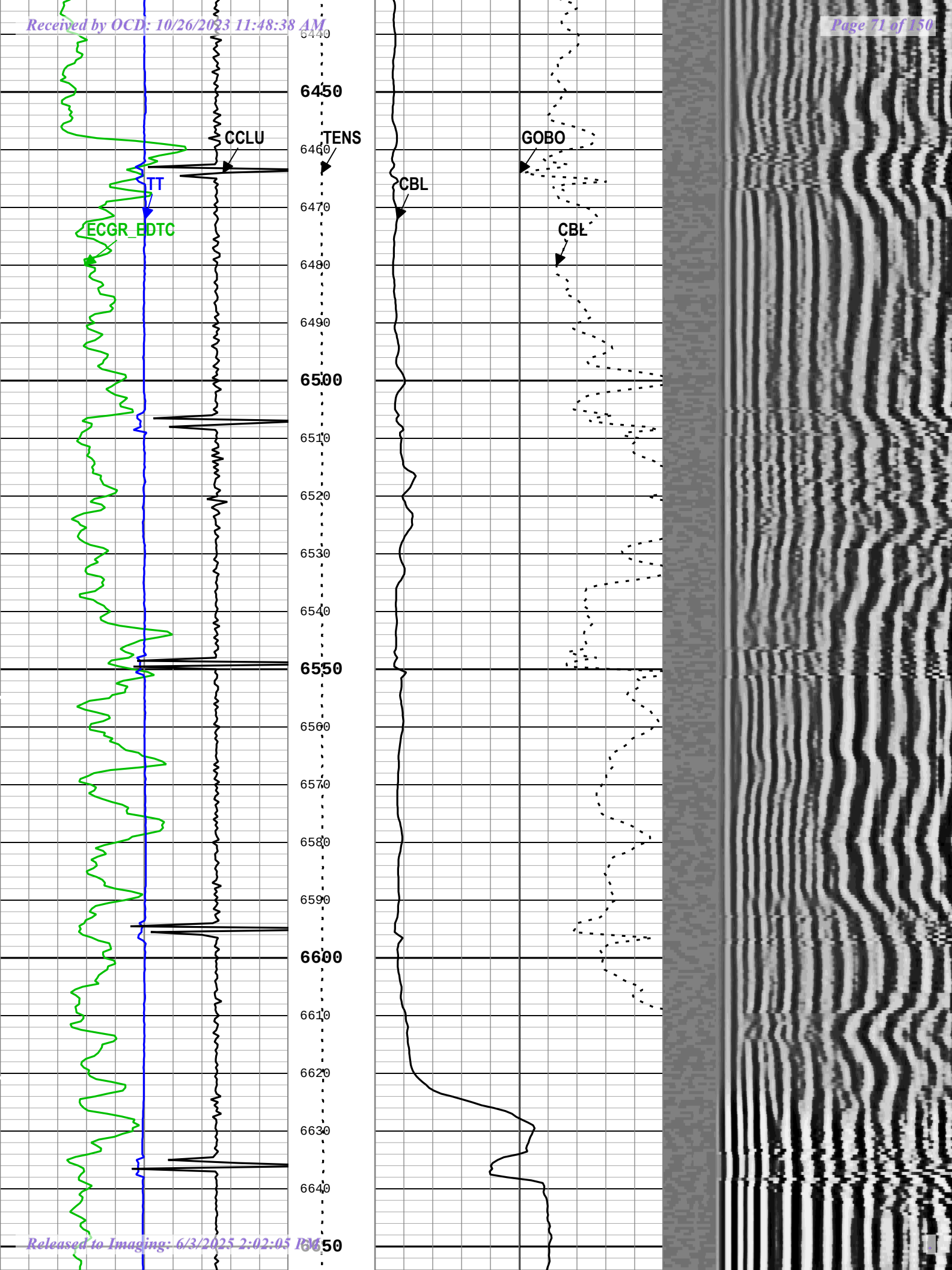
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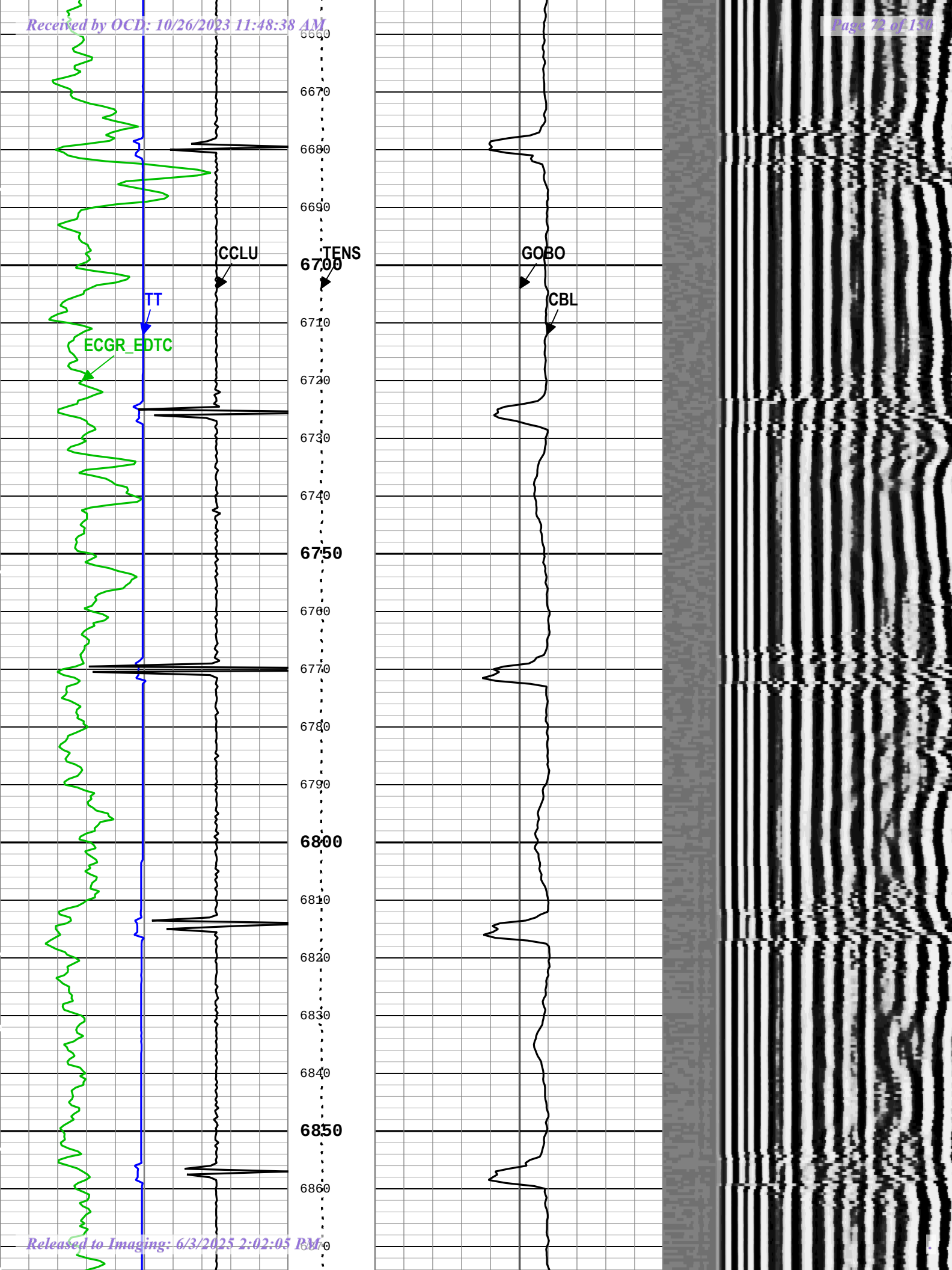
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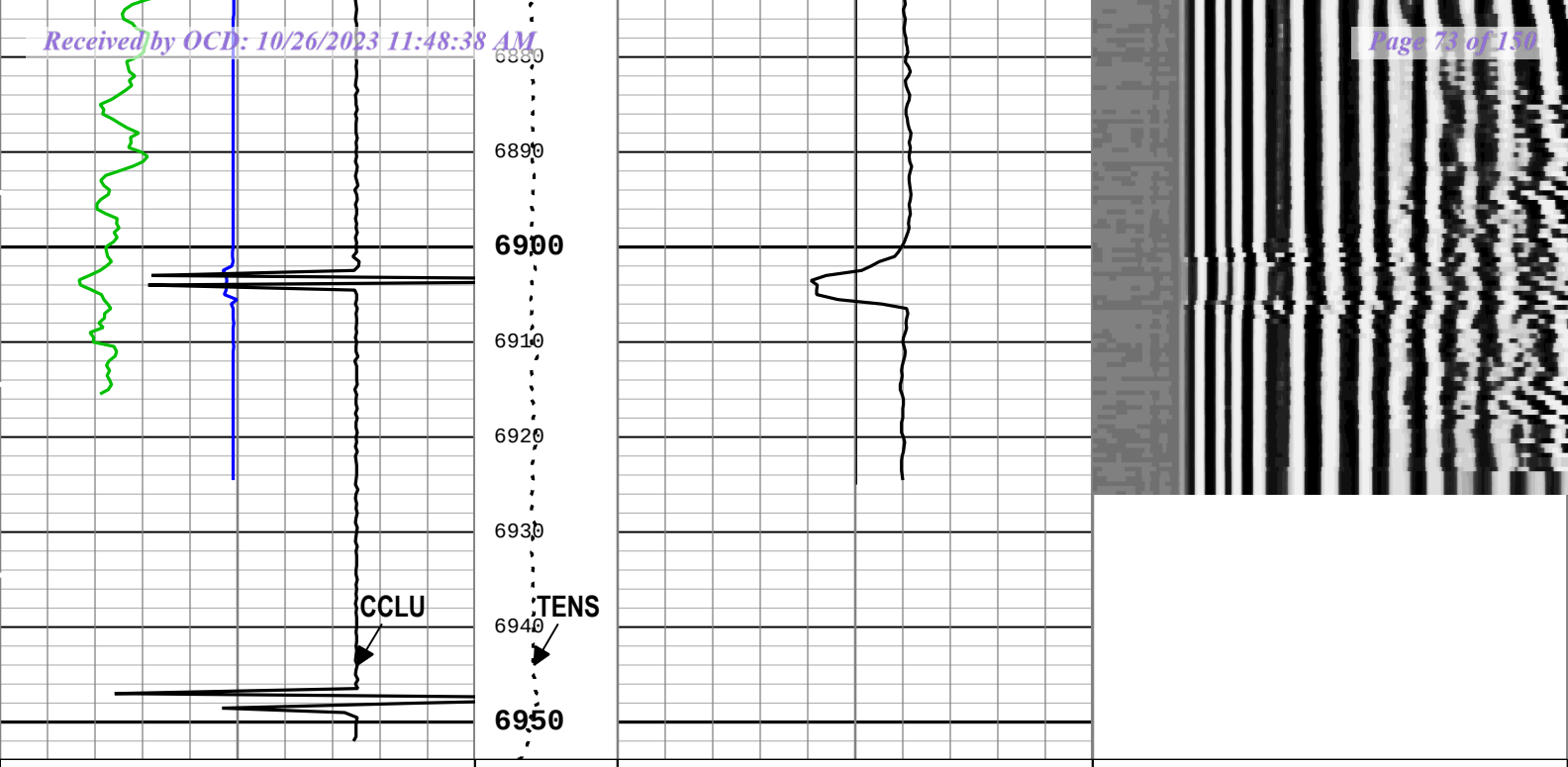


Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Transit Time for CBL (TT) ASLT-B
400 us 200

Casing Collar Locator Ultrasonic (CCLU) USIT-E
-15 in 5

Cable Tension (TENS)
0 lbf 5000

CBL Amplitude (CBL) ASLT-B
0 mV 10

CBL Amplitude (CBL) ASLT-B
0 mV 100

Good Bond (GOBO) ASLT-B
0 mV 10

GoodBond From CBL to GOBO

BIEP - Bond Index Event Pips ASLT-B

Min Amplitude Max

VDL VariableDensity (VDL) ASLT-B
200 us 1200

TIME_1900 - Time Marked every 60.00 (s)

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:58:16

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBAF_D	CBL Adjustment Factor	ASLT-B	1	
CBLO	Casing Bottom (Logger)	WLSESSION	7050	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	63	mV
CDEN	Cement Density	EDTC-B	2	g/cm3
CDEN	Cement Density	USIT-E	1.2	g/cm3
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.408	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FD	Fluid Density	USIT-E	1.1	g/cm3
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	

GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GOBO	Good Bond	ASLT-B	5.03	mV
GOBO_CURR	Good Bond in Arbitrary Cement	ASLT-B	5.03	mV
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-17.47	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	ASLT-B	10.59	dB/ft
MCI	Minimum Cemented Interval for Isolation	ASLT-B	10	ft
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.48	us
MSA	Minimum Sonic Amplitude	ASLT-B	2.67	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	ASLT-B	2.67	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.65	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-12	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.64	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	15	50	3163
BS	12.25	3163	5100
BS	8.75	5100	6953.92

All depth are actual.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
EMXV	EMEX Voltage	USIT-E	5	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	4408.8	ft/h
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
UPAT	USIT Emission Pattern	USIT-E	Pattern 300 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	38_DEG	
VDM	SSLT VDL Display Mode	ASLT-B	R5	
VRES	Vertical Resolution	USIT-E	6.0 in	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Repeat[3]:Up	Up	4940.27 ft	5414.22 ft	18-Oct-2023 9:45:43 PM	18-Oct-2023 9:53:54 PM	ON	-9.00 ft	Yes
1A	Main[5]:Up	Up	25.85 ft	6953.92 ft	18-Oct-2023 10:50:19 PM	19-Oct-2023 1:52:27 AM	ON	-6.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Main[5]:Up:S014

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 19-Oct-2023 02:58:25

BIEP - Bond Index Event Pips ASLT-B

TIME_1900 - Time Marked every 60.00 (s)

Main To Repeat

Repeat To Main

Gamma Ray (ECGR_EDTC) EDTC-B

0 gAPI 150

Main To Repeat

Repeat To Main

Transit Time for CBL (TT) ASLT-B

400 us 200

Main To Repeat

Repeat To Main

Casing Collar Locator Ultrasonic (CCLU) USIT-E

-15 in 3

Main To Repeat

Repeat To Main

Cable Tension (TENS)

0 lbf 5000

Main To Repeat

Repeat To Main

CBL Amplitude (CBL) ASLT-B

0 mV 100

Main To Repeat

Repeat To Main

Good Bond (GOBO) ASLT-B

0 mV 10

Main To Repeat

Repeat To Main

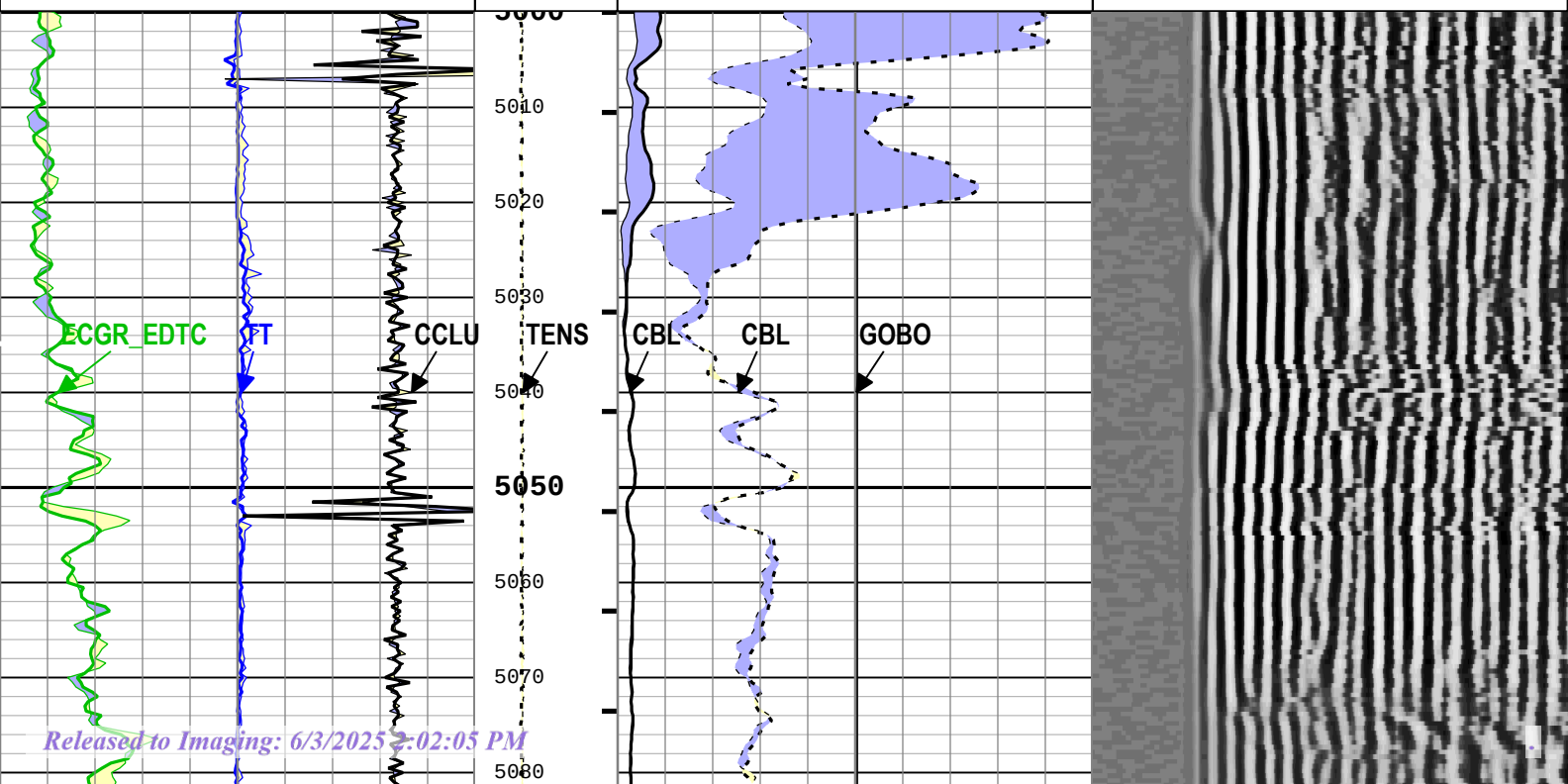
CBL Amplitude (CBL) ASLT-B

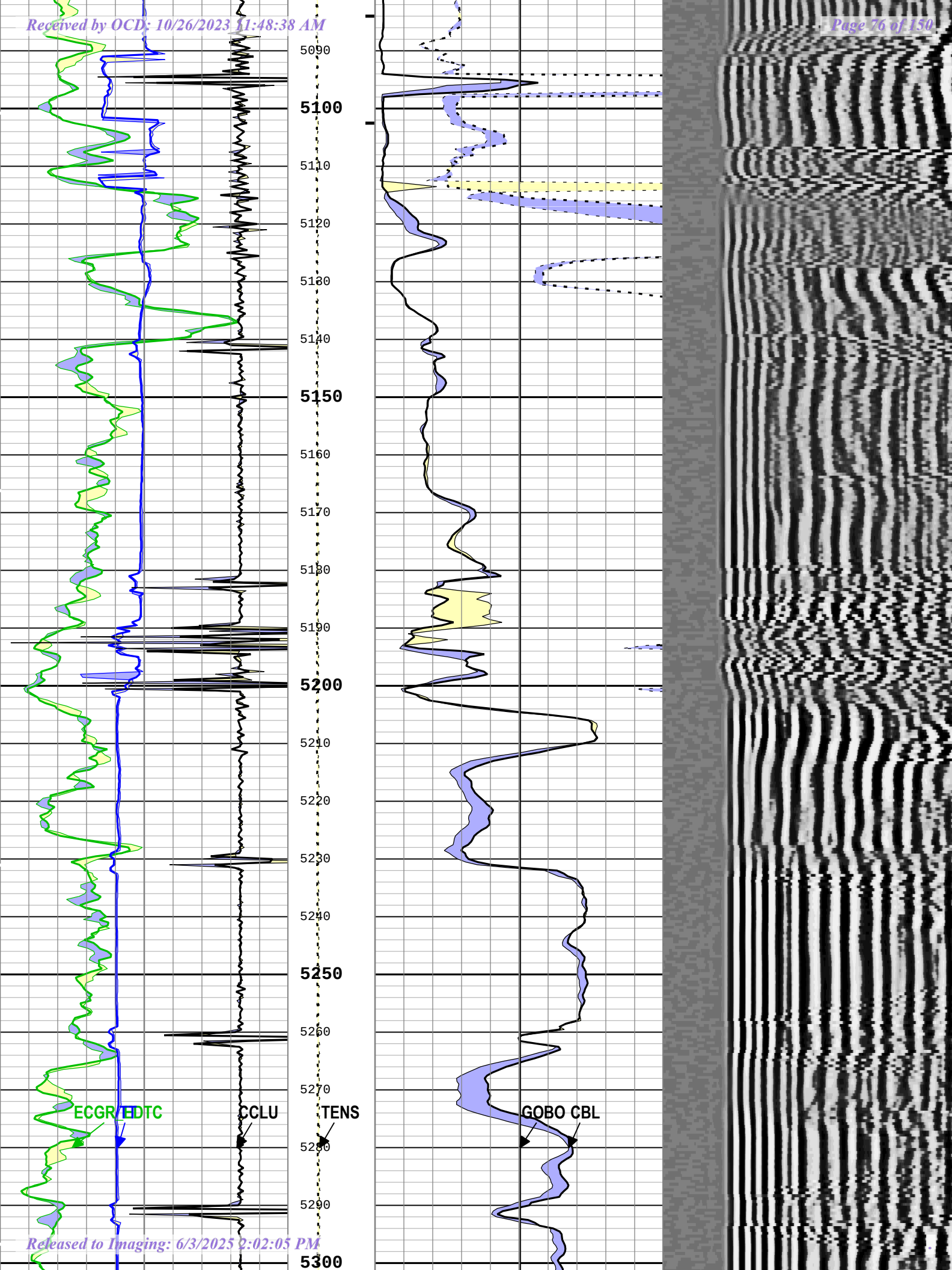
0 mV 10

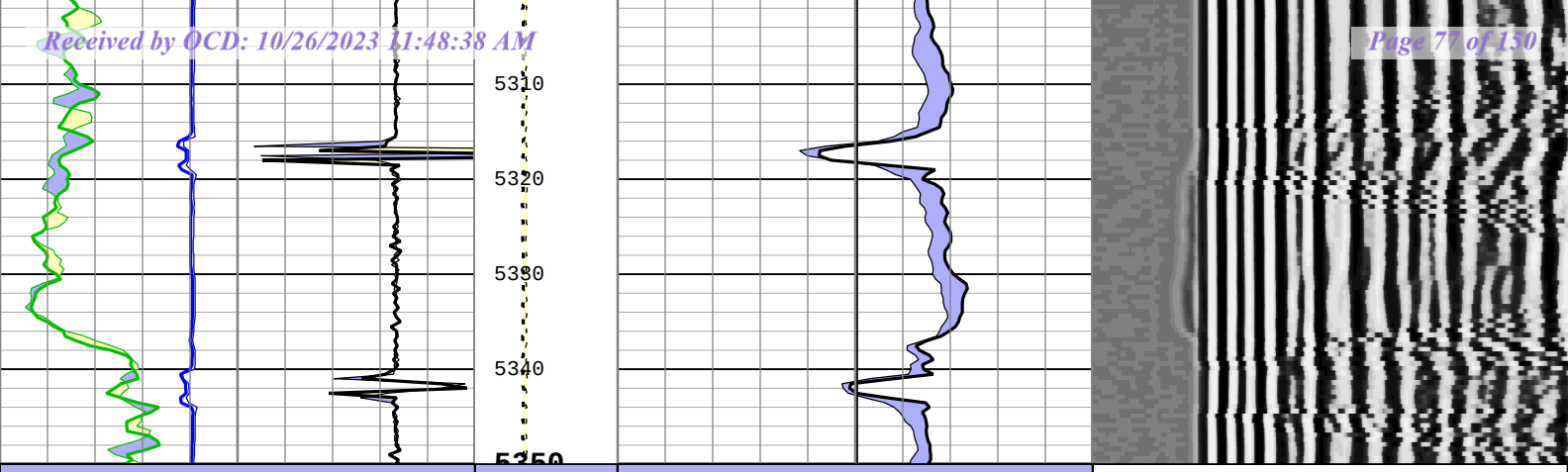
Min Amplitude Max

VDL VariableDensity (VDL) ASLT-B

200 us 1200







Main To Repeat	Main To Repeat	Main To Repeat
Repeat To Main	Repeat To Main	Repeat To Main
Gamma Ray (ECGR_EDTC) EDTC-B	Cable Tension (TENS)	CBL Amplitude (CBL) ASLT-B
0 gAPI 150	0 lbf 5000	0 mV 100
Main To Repeat		Main To Repeat
Repeat To Main		Repeat To Main
Transit Time for CBL (TT) ASLT-B		Good Bond (GOBO) ASLT-B
400 us 200		0 mV 10
Main To Repeat		Main To Repeat
Repeat To Main		Repeat To Main
Casing Collar Locator Ultrasonic (CCLU) USIT-E		CBL Amplitude (CBL) ASLT-B
-15 in 3		0 mV 10

TIME_1900 - Time Marked every 60.00 (s)

BIEP - Bond Index Event Pips ASLT-B

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Oct-2023 02:58:25

Calibration Report

ASLT-B (Array Sonic Logging Tool - B) Calibration - Run 1A

Primary Equipment :

Array Sonic Logging Tool - BB	ASLT-BB	8118

CBL Amplitude Normalization - CBL Accumulations

Master (Measured): 17:17:42 22-Aug-2023

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Sonic Amplitude Upper Transmitter - Receiver 5 (SA_U5)		Master	3145.0	2040.0	3788.3	4250.0
Sonic Raw Amplitude Upper Transmitter - Receiver 1 (RA_U1)	mV	Master	187.500	123.000	221.080	248.000
Sonic Amplitude Lower Transmitter - Receiver 1 (SA_L1)		Master	3145.0	2040.0	3610.1	4250.0
Sonic Raw Amplitude Lower Transmitter - Receiver 5 (RA_L5)	mV	Master	187.500	123.000	232.802	248.000

CBL Amplitude Normalization - CBL/VDL Coefficients

Master (Measured): 17:17:42 22-Aug-2023

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
CBL Correction Factor for Upper Transmitter (CBCF_U1)		Master	0.500	-----	0.525	-----

CBL Correction Factor for Lower Transmitter (CBCF_LT)		Master	0.500	-----	0.498	-----
VDL Ratio between UT and LT for CBLB Mode (VDR)		Master	1.000	-----	1.049	-----

CBL Amplitude Free Pipe Adjustment - Free Pipe Measurements

Before (Manual Entry): 22:46:22 18-Oct-2023

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
CBL Amplitude (CBLF) - 0	mV	Before	-----	-----	-----	-----
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----
Measurement Depth (DEPTH) - 0	ft	Before	-----	-----	-----	-----

CBL Amplitude Free Pipe Adjustment - CBL Amplitude Coefficients

Before (Manual Entry): 22:46:22 18-Oct-2023

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
CBL Adjustment Factor (CBL_ADJUST_FACTOR)		Before	1.000	0.300	0.811	3.000
Depth of Before Calibration (BDEP)	ft	Before	-----	-----	6914.69	-----

EDTC-B (Enhanced Digital Telemetry Cartridge - Version B) Calibration - Run 1A

Primary Equipment :

EDTC-B EDTC-B 8220

Calibration Parameter :

Plus Reference

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM): 20:50:20 18-Oct-2023

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Initial PMT HV	V	Master	-----	-----	1418.000	-----
Accelerometer Serial Number		Master	-----	-----	262	-----
Accelerometer Coefficients - 0		Master	-----	-----	2.983E+000	-----
Accelerometer Coefficients - 1		Master	-----	-----	2.885E-004	-----
Accelerometer Coefficients - 2		Master	-----	-----	-1.620E-008	-----
Accelerometer Coefficients - 3		Master	-----	-----	-7.677E-008	-----
Accelerometer Coefficients - 4		Master	-----	-----	1.861E-009	-----
Accelerometer Coefficients - 5		Master	-----	-----	-1.417E-011	-----
Accelerometer Coefficients - 6		Master	-----	-----	3.634E-014	-----
Accelerometer Coefficients - 7		Master	-----	-----	-9.532E-003	-----
Accelerometer Coefficients - 8		Master	-----	-----	7.439E-005	-----
Accelerometer Coefficients - 9		Master	-----	-----	-4.137E-008	-----
Accelerometer Coefficients - 10		Master	-----	-----	2.162E-012	-----
Accelerometer Coefficients - 11		Master	-----	-----	2.162E-012	-----
Gamma-Ray Detector Serial Number		Master	-----	-----	77125	-----

Company: PERMIAN OILFIELD PARTNERS, LLC

Well: SALT CREEK AGI 003

Field: AGI DELAWARE

County: LEA

State: NEW MEXICO

Cement Bond Log

Variable Density Log

Company: PERMIAN OILFIELD PARTNERS, LLC

Well: SALT CREEK AGI 003

Field: AGI DELAWARE

County: LEA State: NEW MEXICO

Isolation Scanner

Cement Evaluation

Gamma Ray - CCL

County: LEA
Field: AGI DELAWARE
Location: Sec. 21, Rng. 36-E, Town. 26-S
Well: SALT CREEK AGI 003
Company: PERMIAN OILFIELD PARTNERS, LLC

Location:				
Sec. 21, Rng. 36-E, Town. 26-S		Elev.:	K.B.	2946.00 ft
SHL: 2339' FSL & 278' FWL			G.L.	2926.00 ft
Survey: Matthew B. Tomerlin			D.F.	2946.00 ft
Permanent Datum:	Ground Level	Elev.:		2926.00 f
Log Measured From:	Kelly Bushing	20.00 ft		above Perm.Datum
Drilling Measured From:	Kelly Bushing			

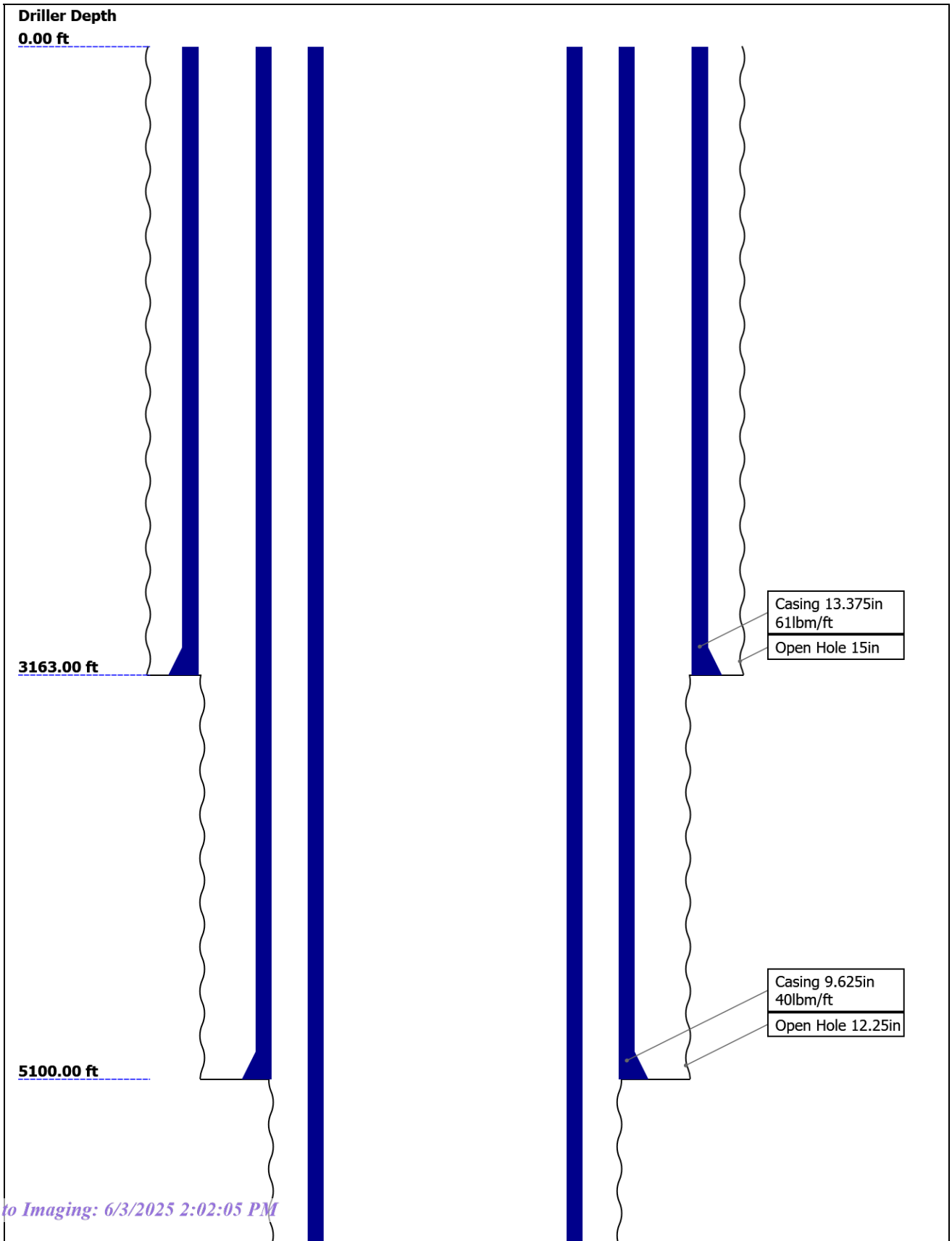
API Serial No.	Section:	Township:	Range:
30-025-51865	21	26-S	36-E

Logging Date		18-Oct-2023		
Run Number		1A		
Depth Driller		7050.00 ft		
Schlumberger Depth		7050.00 ft		
Bottom Log Interval		6952.00 ft		
Top Log Interval		50.00 ft		
Casing Fluid Type		Fresh Water		
Salinity				
Density		9 lbm/gal		
Fluid Level		8.00 ft		
BIT/CASING/TUBING STRING				
Bit Size		8.75 in		
From		5100.00 ft		
To		7050.00 ft		
Casing/Tubing Size		7 in		
Weight		29 lbm/ft		
Grade		P110		
From		0.00 ft		
To		7050.00 ft		
Max Recorded Temperatures		118.12 degF		
Logger on Bottom	Time	18-Oct-2023	22:45:00	
Unit Number	Location:	9113	Midland	
Recorded By		Ryan Ward		
Witnessed By		Sean Puryear		

Disclaimer

Contents

Well Sketch

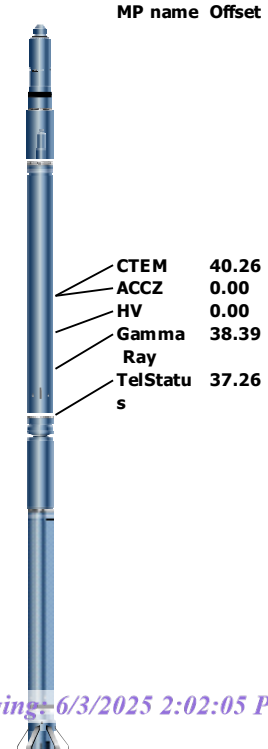


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	15	12.25	8.75			
Top Driller (ft)	0	3163	5100			
Top Logger (ft)	0	3163	5100			
Bottom Driller (ft)	3163	5100	7050			
Bottom Logger (ft)	3163	5100	7050			
Casing						
Size (in)	13.375	9.625	7			
Weight (lbm/ft)	61	40	29			
Inner Diameter (in)	12.515	8.835	6.184			
Grade	L80	J55	P110			
Top Driller (ft)	0	0	0			
Top Logger (ft)	0	0	0			
Bottom Driller (ft)	3163	5100	7050			
Bottom Logger (ft)	3163	5100	7050			

Remarks and Equipment Summary

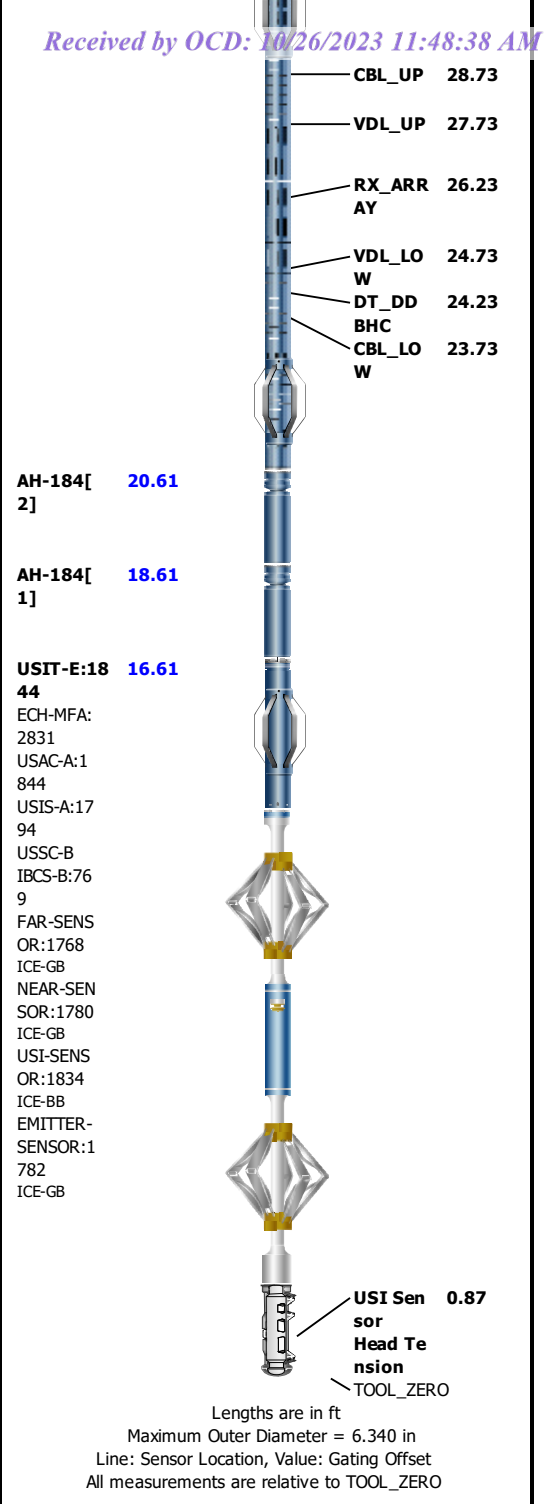
1A: Toolstring



Equip name	Length	MP name	Offset
LEH-QT	**47.25**		
LEH-QT			
EDTC-B:8220	**43.76**		
EDTH-B:9373			
EDTG-B:77125			
EDTC-B:8220			
AH-184[3]	**37.26**		
ASLT-B:8118	**35.26**		
ASLT-BB:8118			

1A: Remarks

Tool was run as per tool sketch
All logging intervals as per client request
Logging Objective: Cement Evaluation
Logging Resolution: IBC - 10deg 6in. ASLT - TT6_WF6
Expected Free-pipe amplitude 61mV +/= 6mV
Main pass logged with 1000psi surface induced pressure. Repeat pass logged with 0p
IBC Centralized with 2x In-line centralizers & 6.35in GEMCO on USAC
ASLT Centralized with 2x 6.35in GEMCOs
Chrome casing from 5200ft - 5573ft



Lengths are in ft
Maximum Outer Diameter = 6.340 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

	1A		
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6433		
Calibration Date	03-MAY-2023		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-32 AS-XS		
Wheel Correction 1	1		
Wheel Correction 2	0		
Tension Device			
Type	CMT-DBA		

Serial Number	2295		
Calibration Date	21-MAY-2023		
Calibrator Serial Number	1035		
Number of Calibration Points	10		
Calibration Root Mean Square Error	11		
Calibration Peak Error	21		

Logging Cable

Type	7-32AS-XS		
Serial Number	0062254083		
Length	29000.00 ft		
Conveyance Type	Wireline		
Rig Type			

1A:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth control system
Rig Up Length At Bottom		Z-Chart used as secondary depth control system
Rig Up Length Correction		Log correlated to GR provided by client
Stretch Correction		
Tool Zero Check At Surface		

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Main[5]:Up	6953.92	25.85

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)

Mud Impedance = "Theoretical".
CZMD uses theoretical results.
MUD_N_THE=1.10
DFD=1.08g/cm3(9.00lbm/gal)

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)

1A

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Main[5]:Up	Up	25.85 ft	6953.92 ft	18-Oct-2023 10:50:19 PM	19-Oct-2023 1:52:27 AM	ON	-6.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Main[5]:Up:S014

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:54:51

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - : UTIM Error

2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Absent -5.200 -3.600 -2.000 -0.400
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E (dB)

Acoustic Impedance Minimum (AIMN) USIT-E
-1 Mrayl 9

Acoustic Impedance Average (AIAV) USIT-E
-1 Mrayl 9

Acoustic Impedance Maximum (AIMX) USIT-E
-1 Mrayl 9

Acoustic Impedance Flexural Attenuation Average (AIFAV) USIT-E
-1 Mrayl 9

Absent 1.500 3.500 5.500 7.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E
0 dB/m 150

Average Flexural Attenuation (U-USIT_UFAV) USIT-E
0 dB/m 150

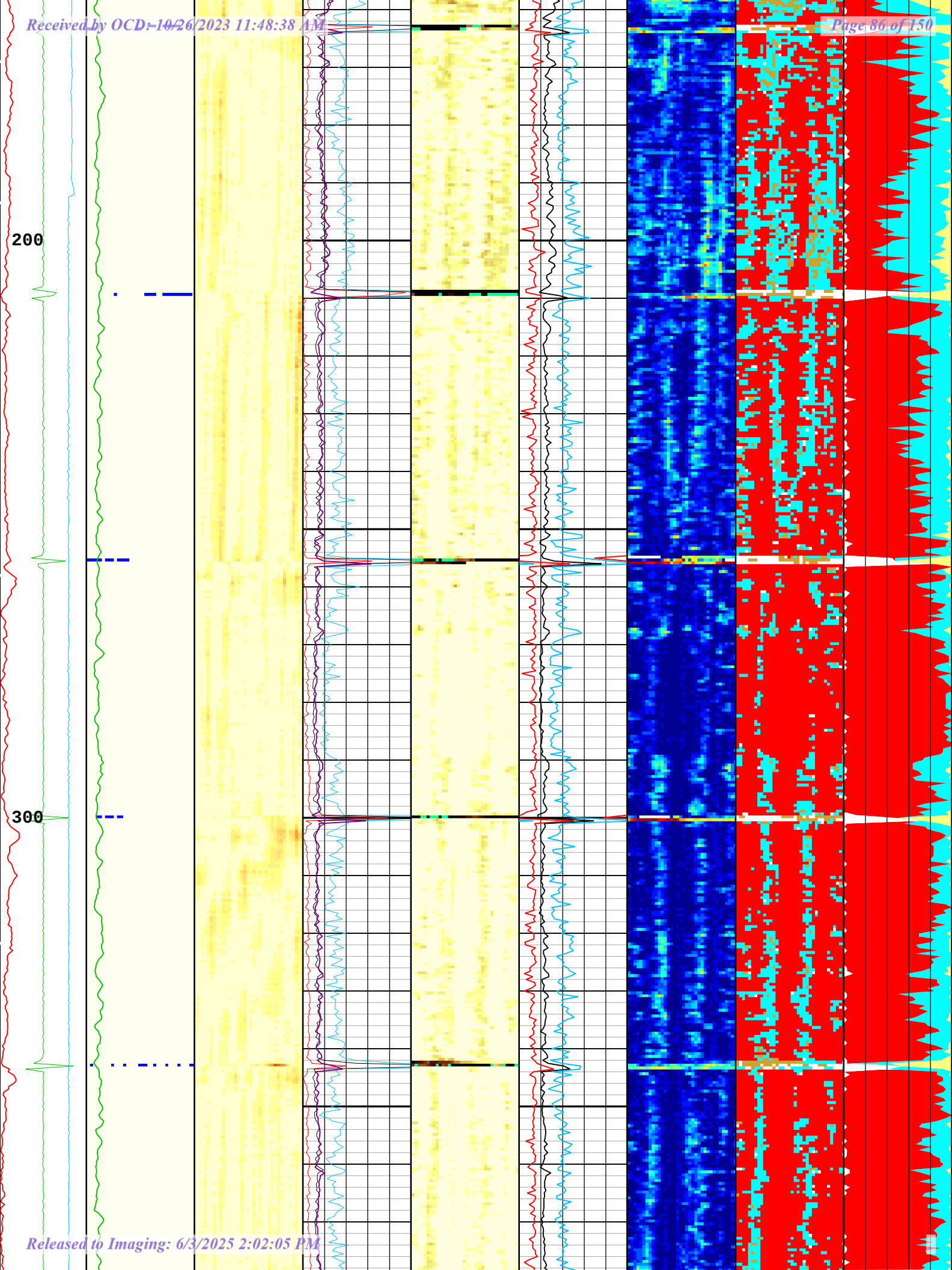
Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E
0 dB/m 150

Absent 42.000 66.000 90.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

Absent 0.500 1.500 2.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

SLG Solid Index
SLG Liquid Index
SLG Gas Index
SLG White Point Index

100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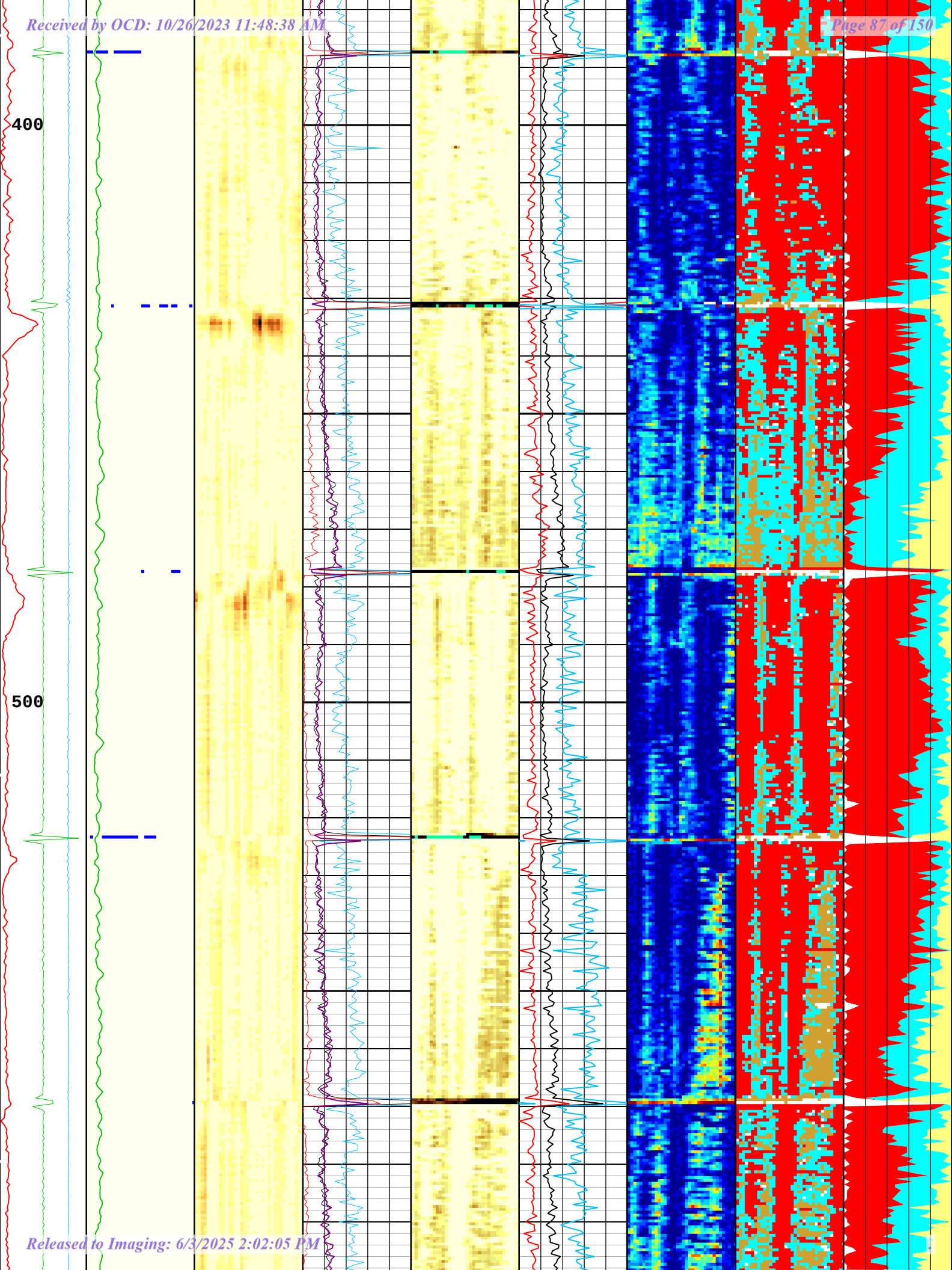

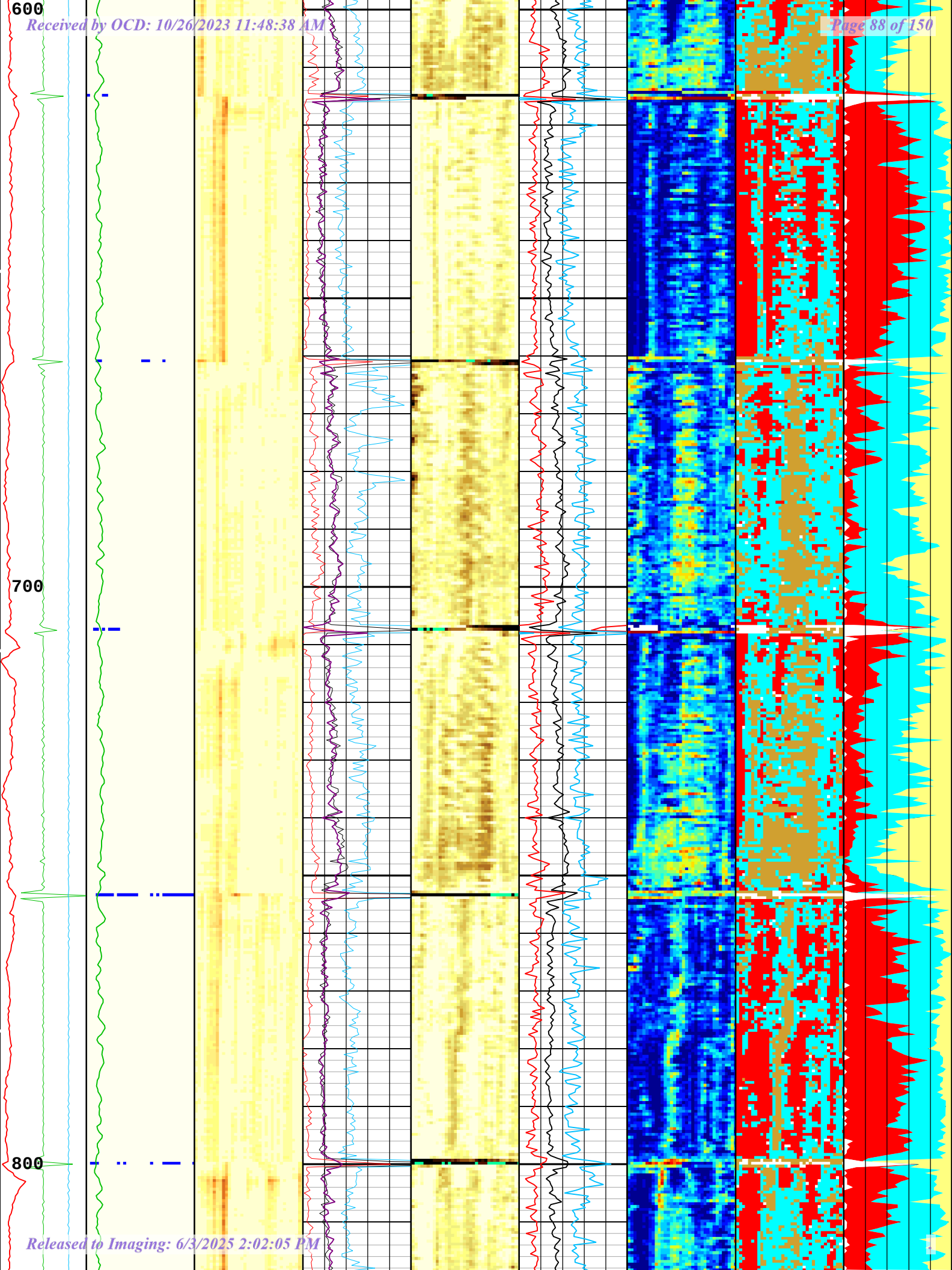

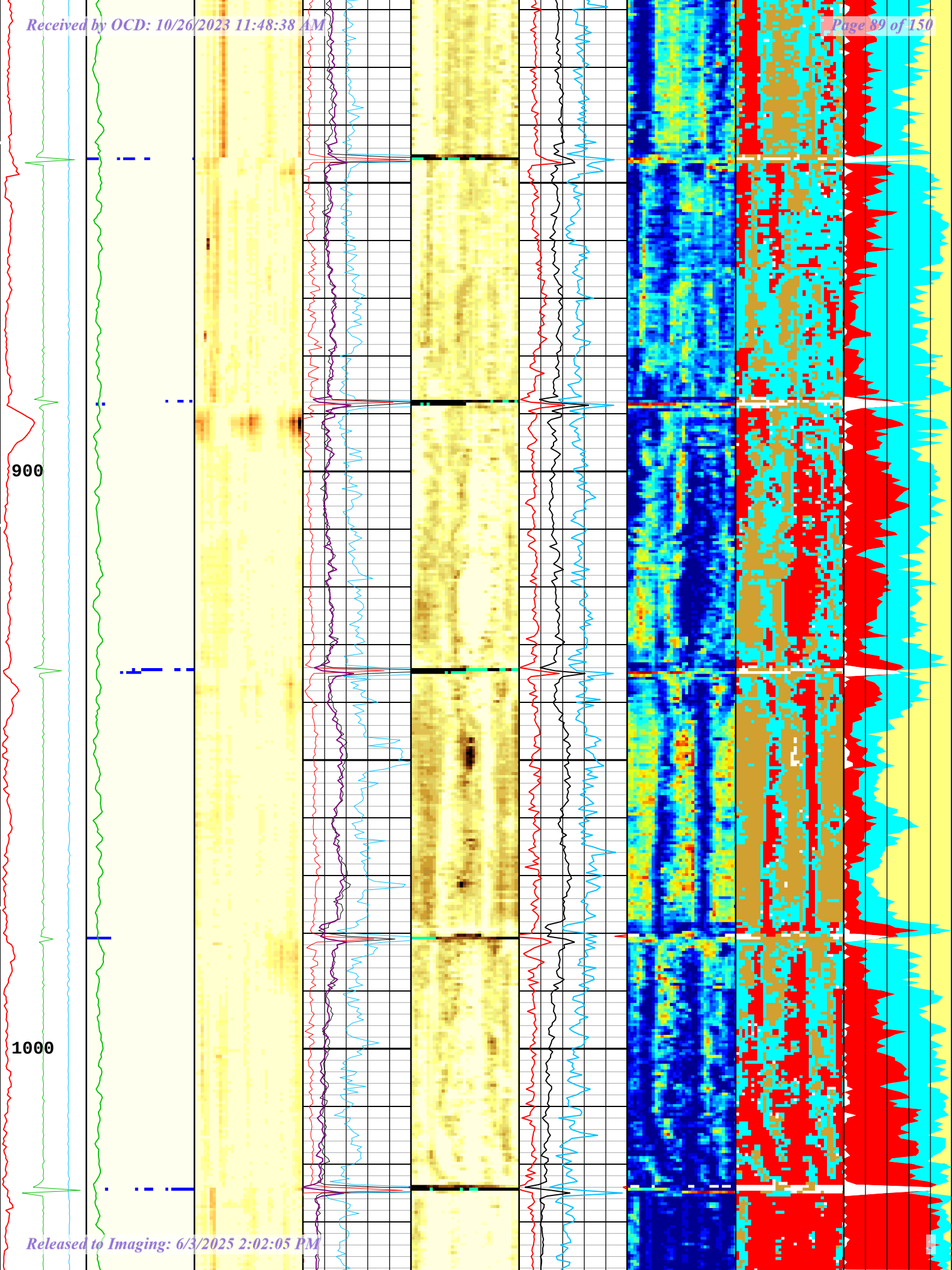

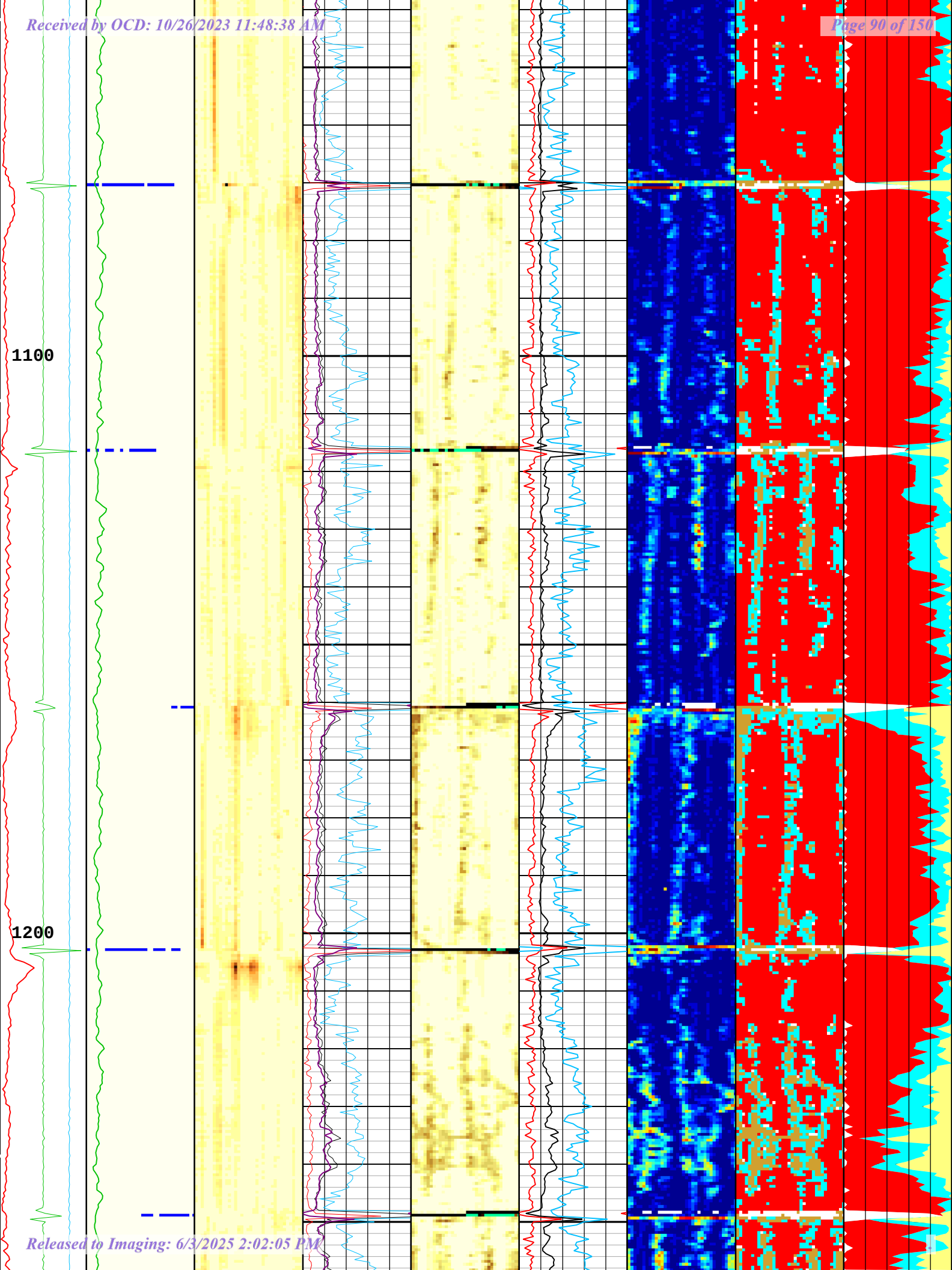
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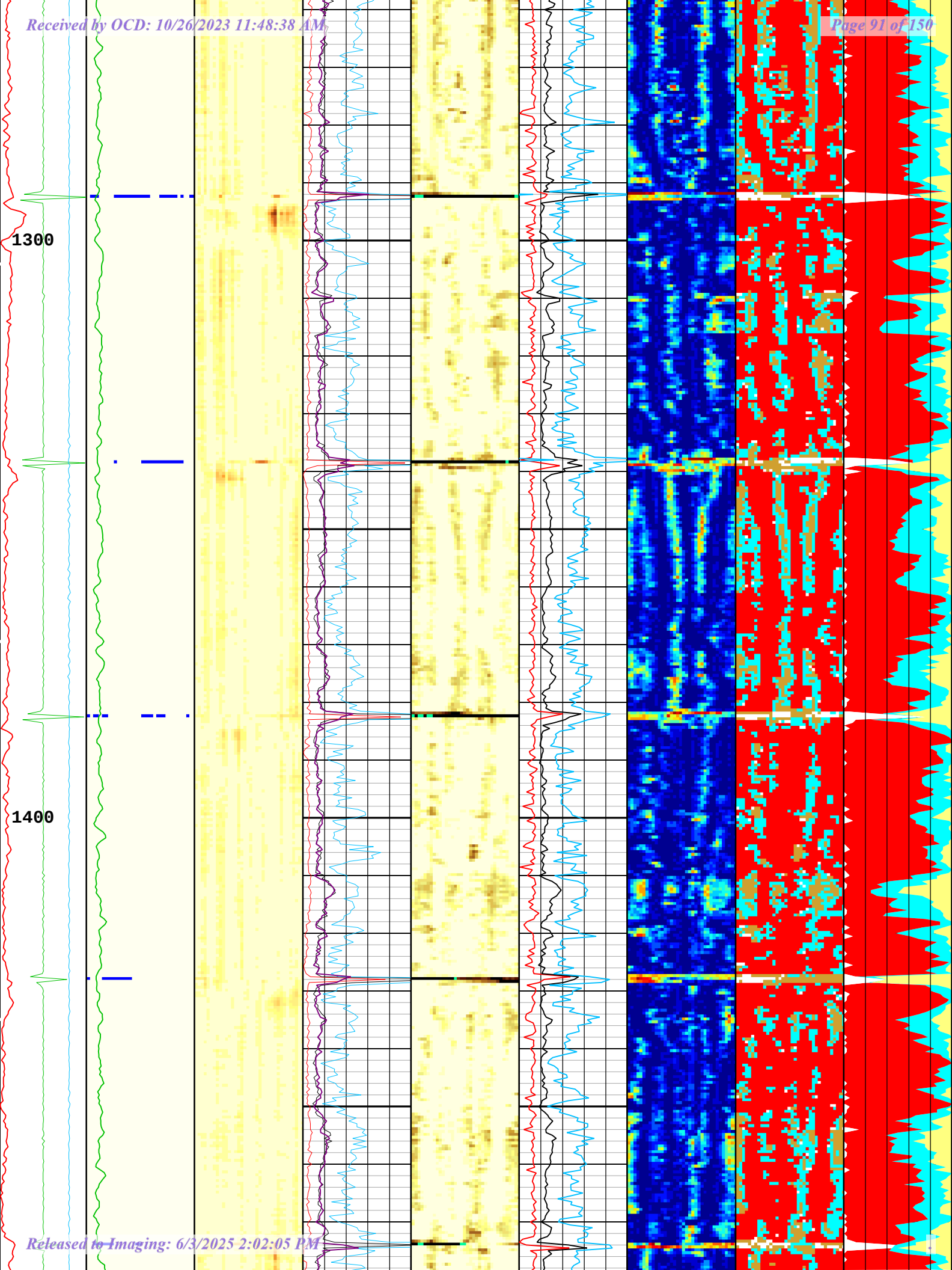
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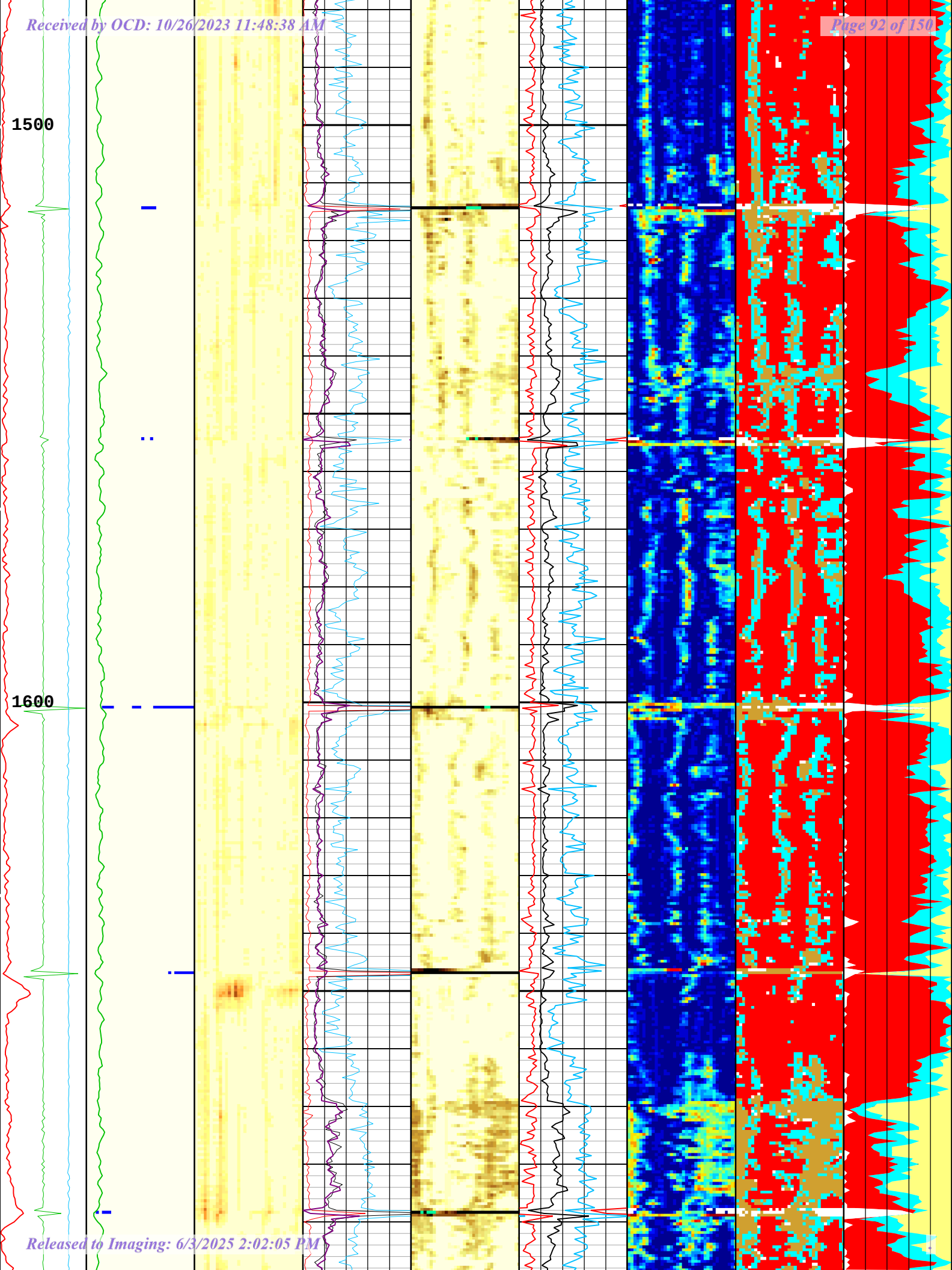

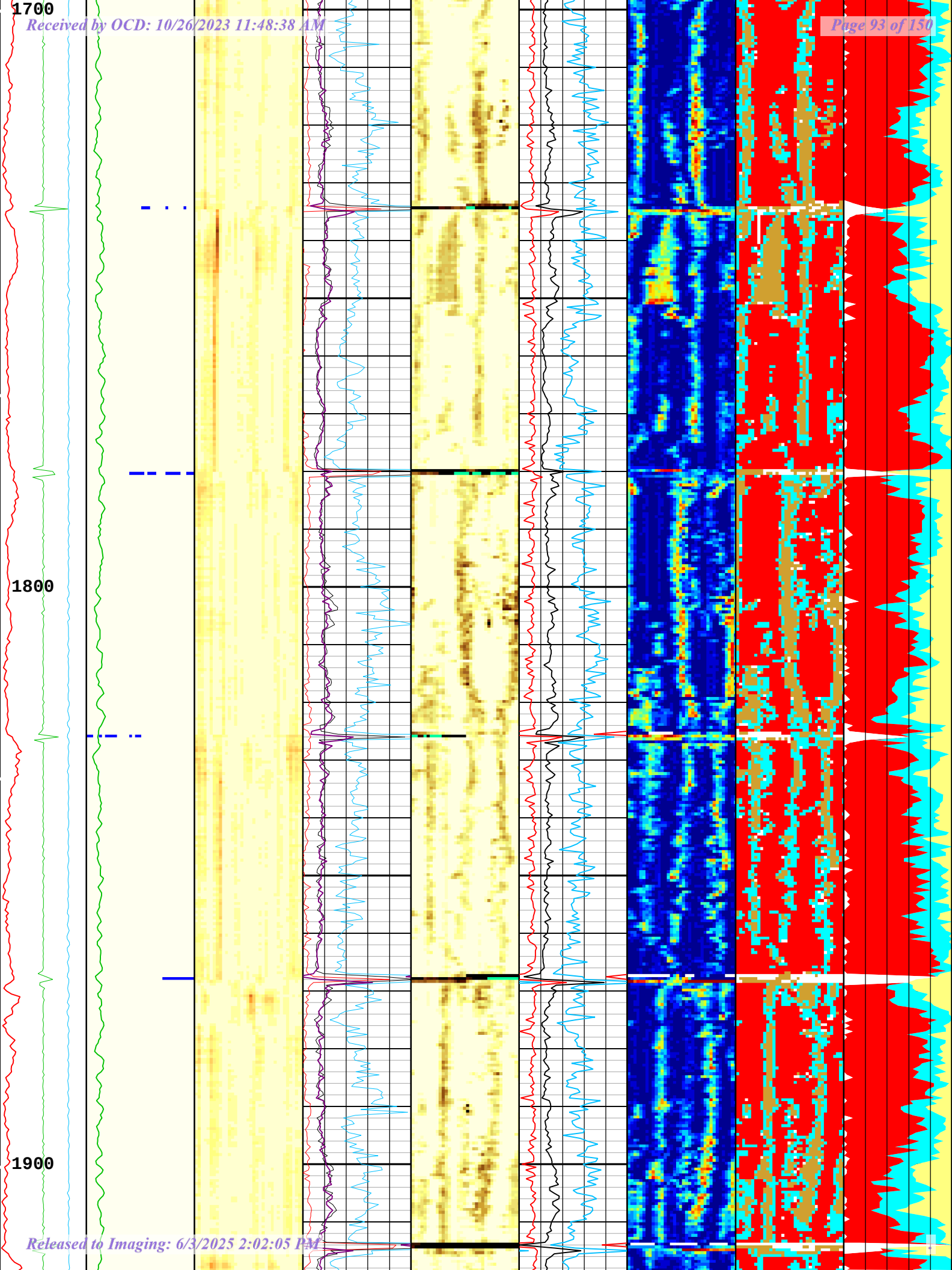

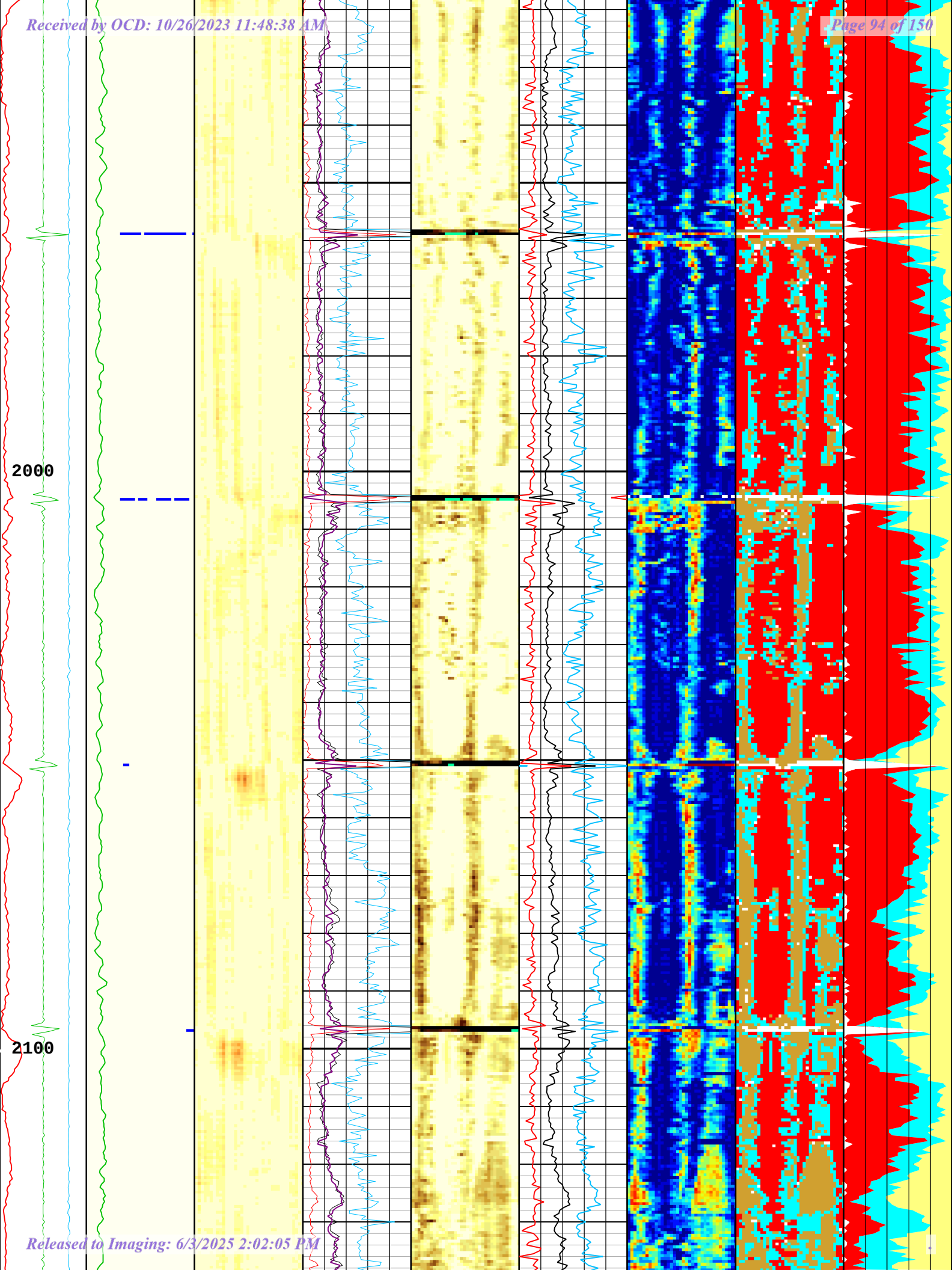

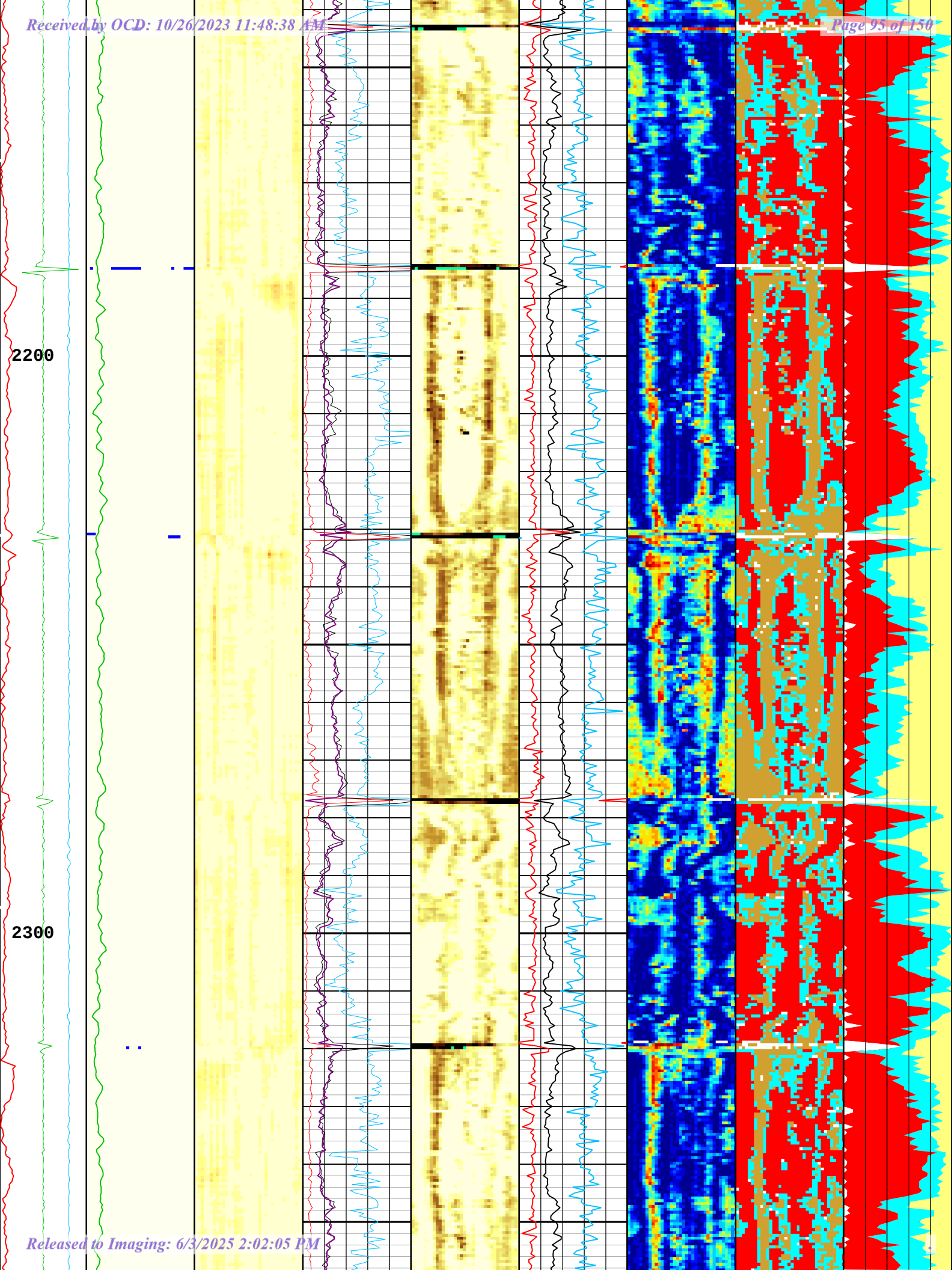

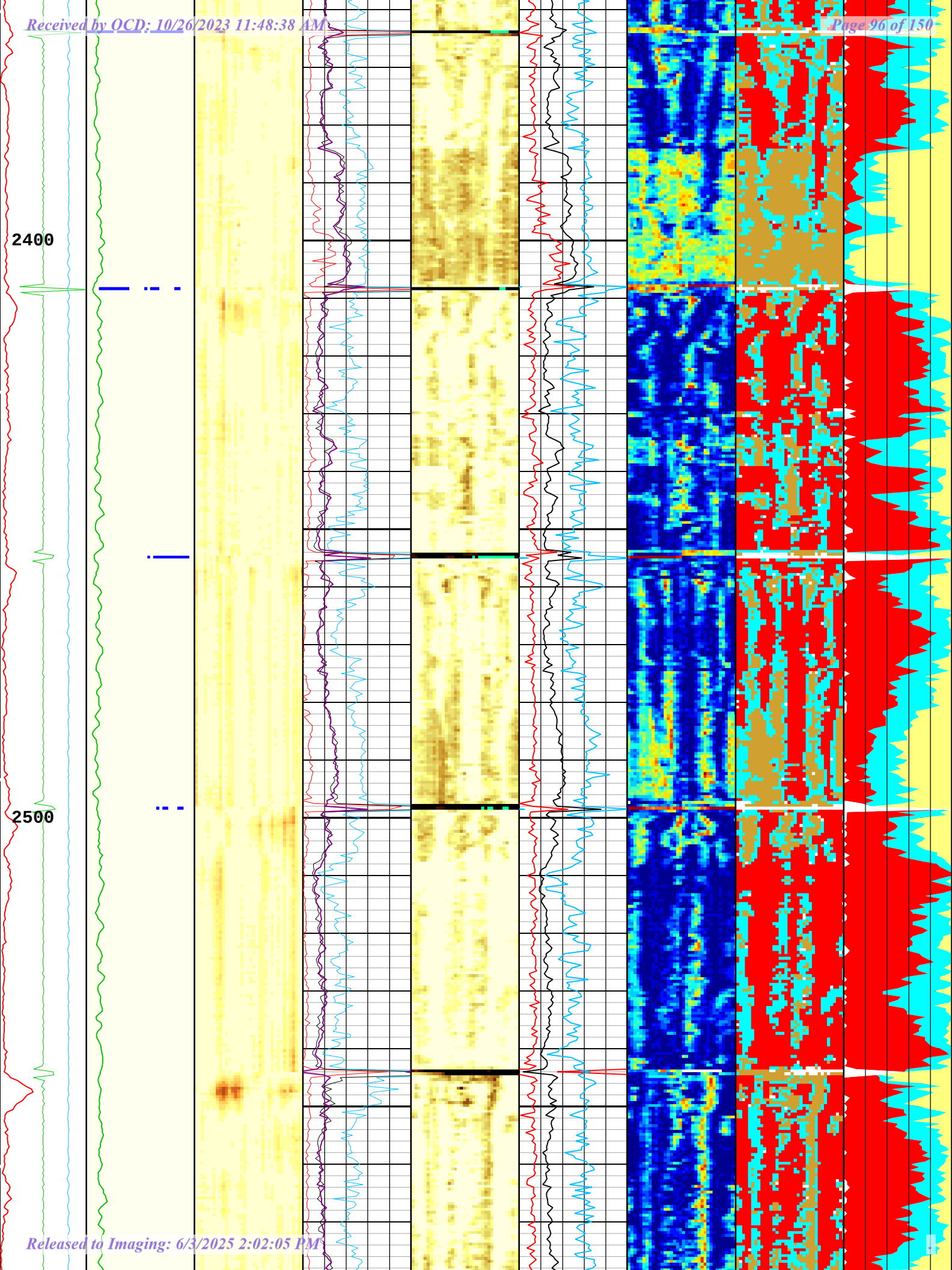
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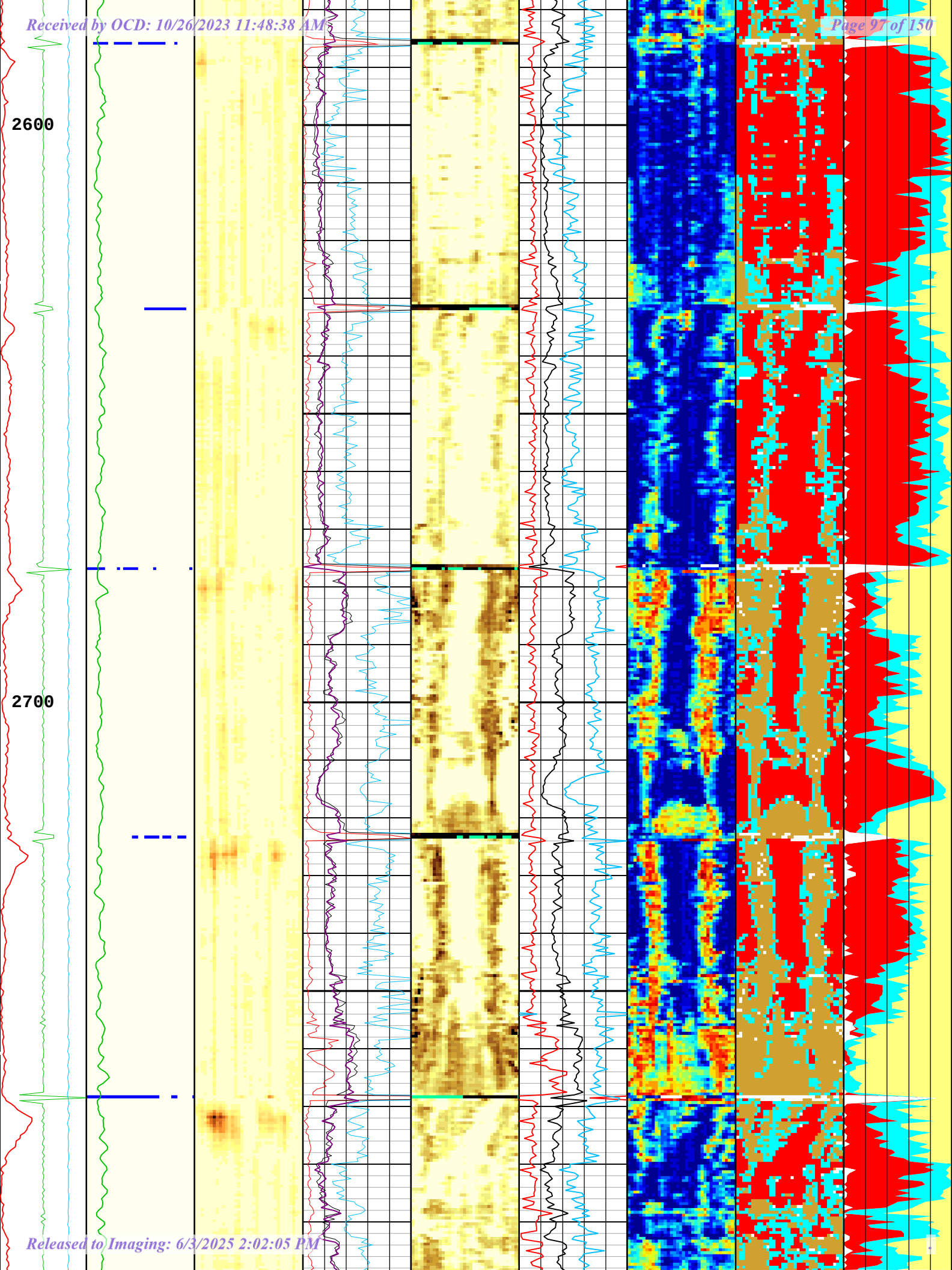
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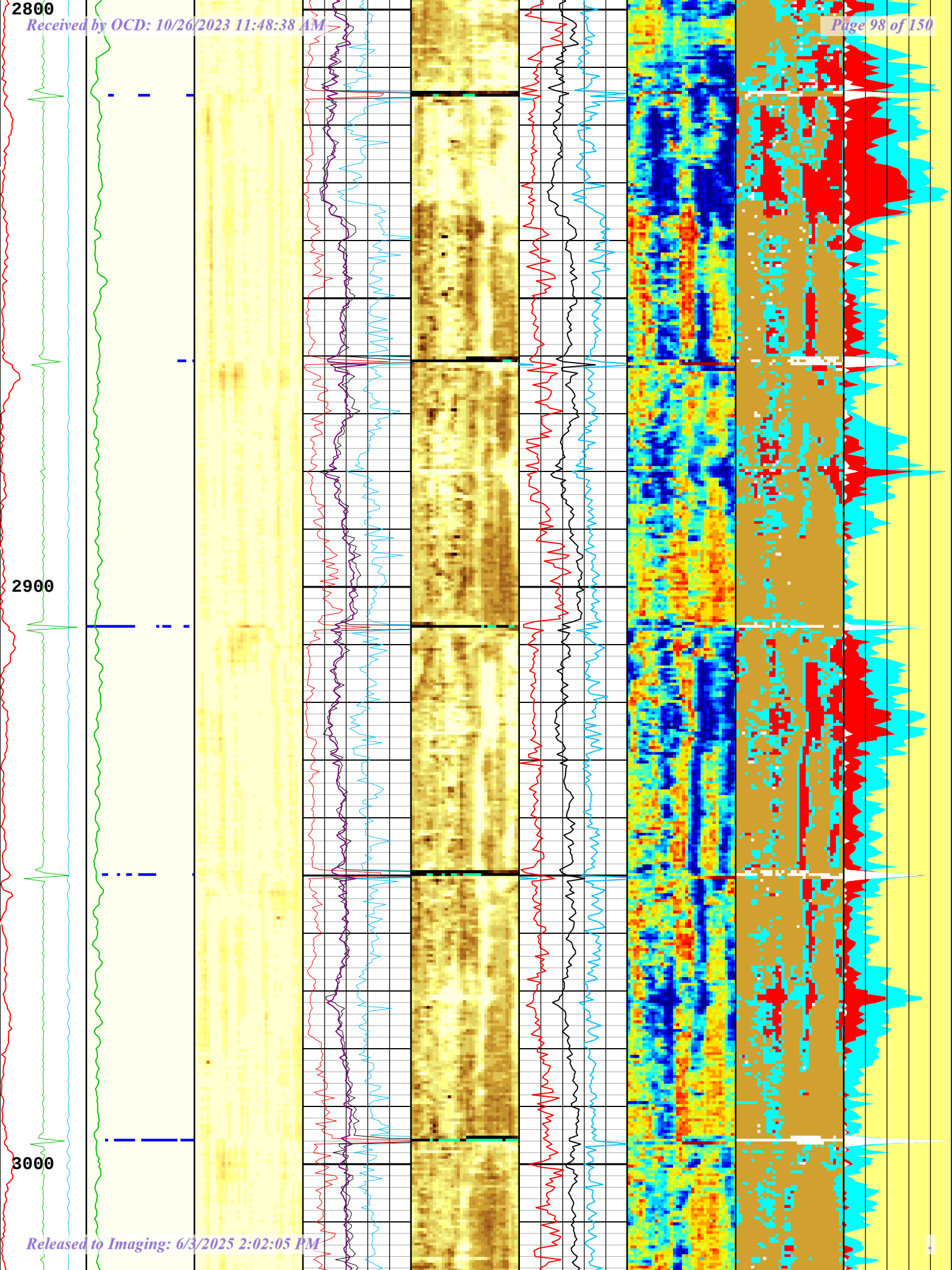

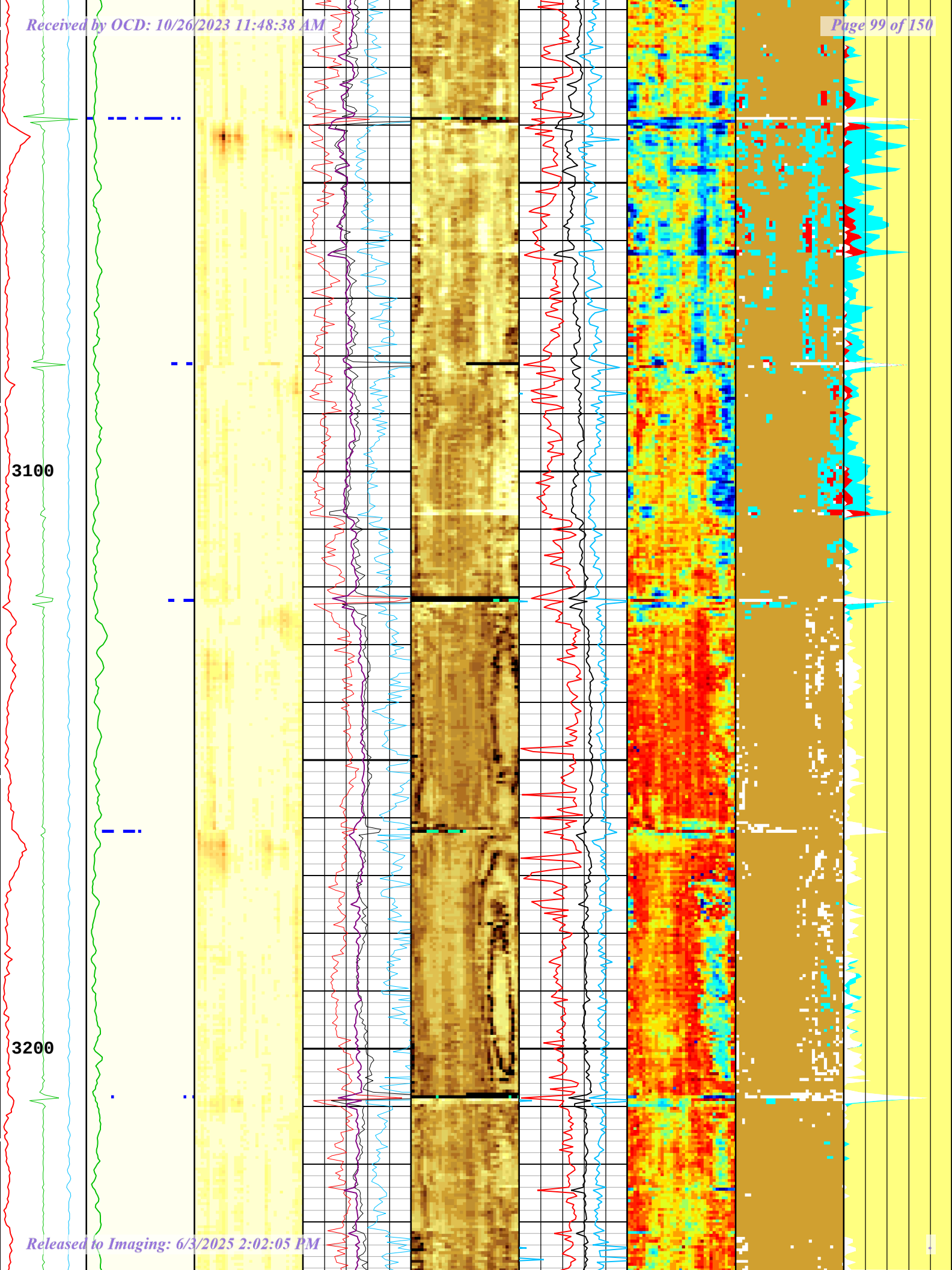
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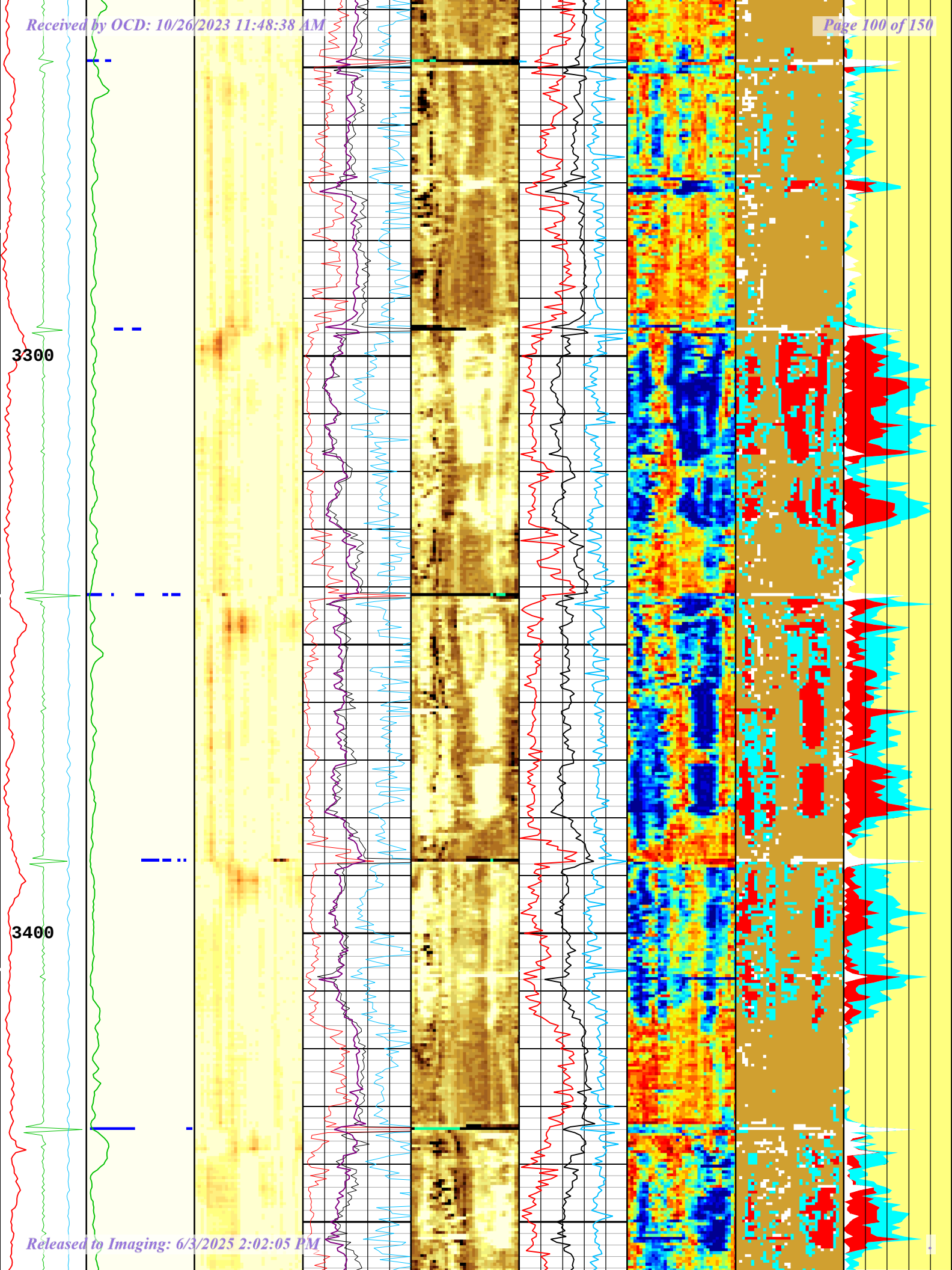
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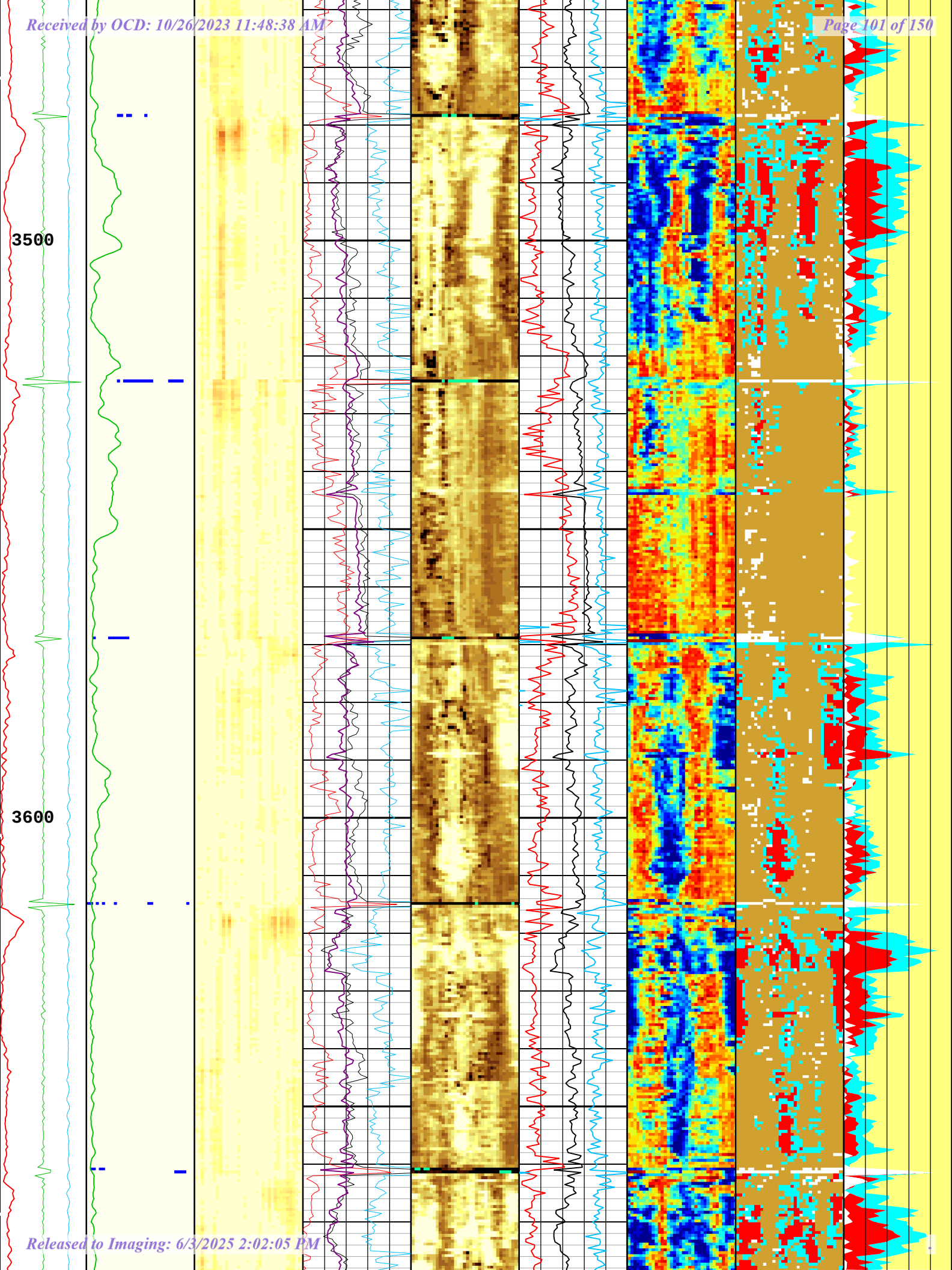
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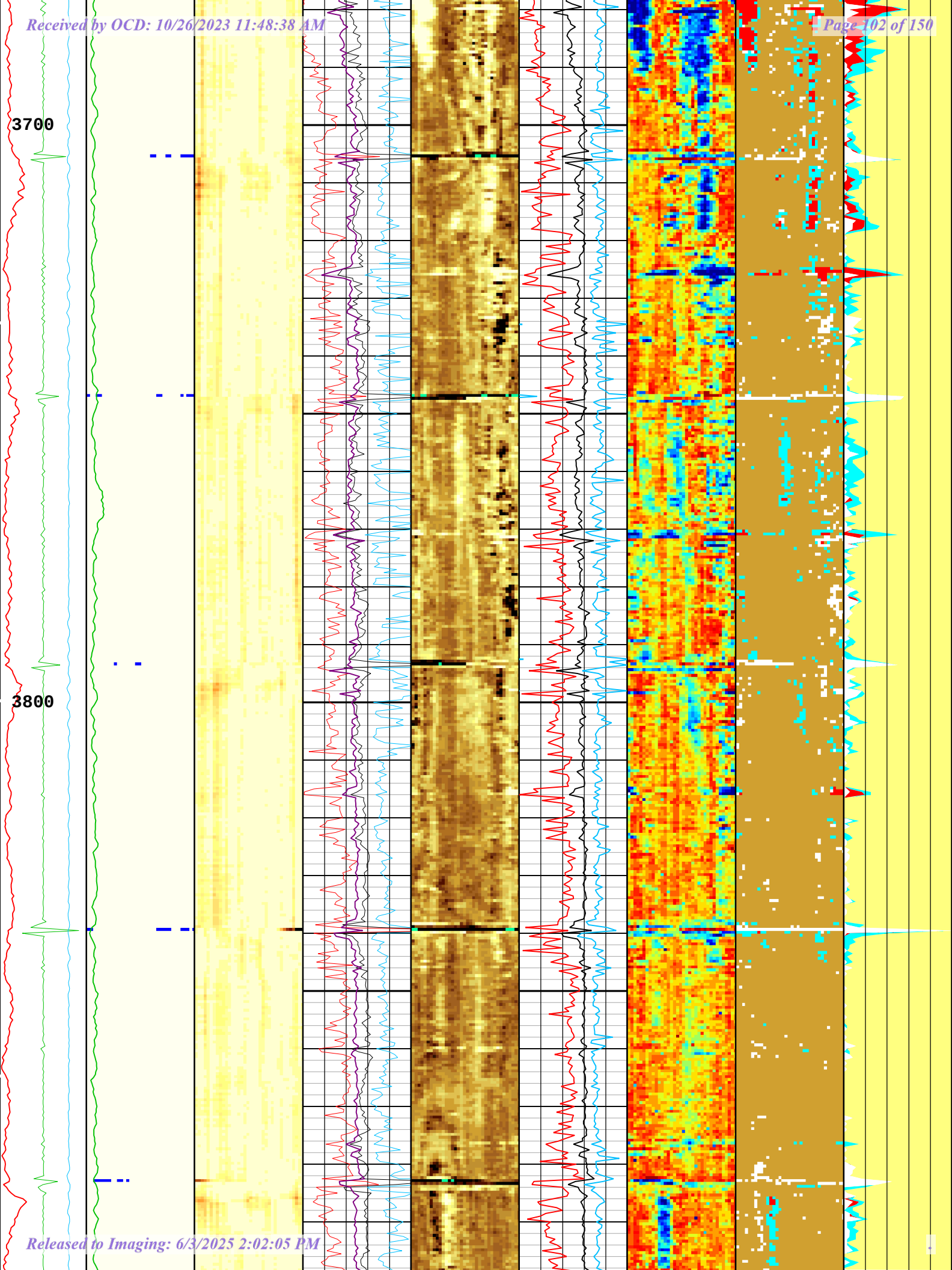

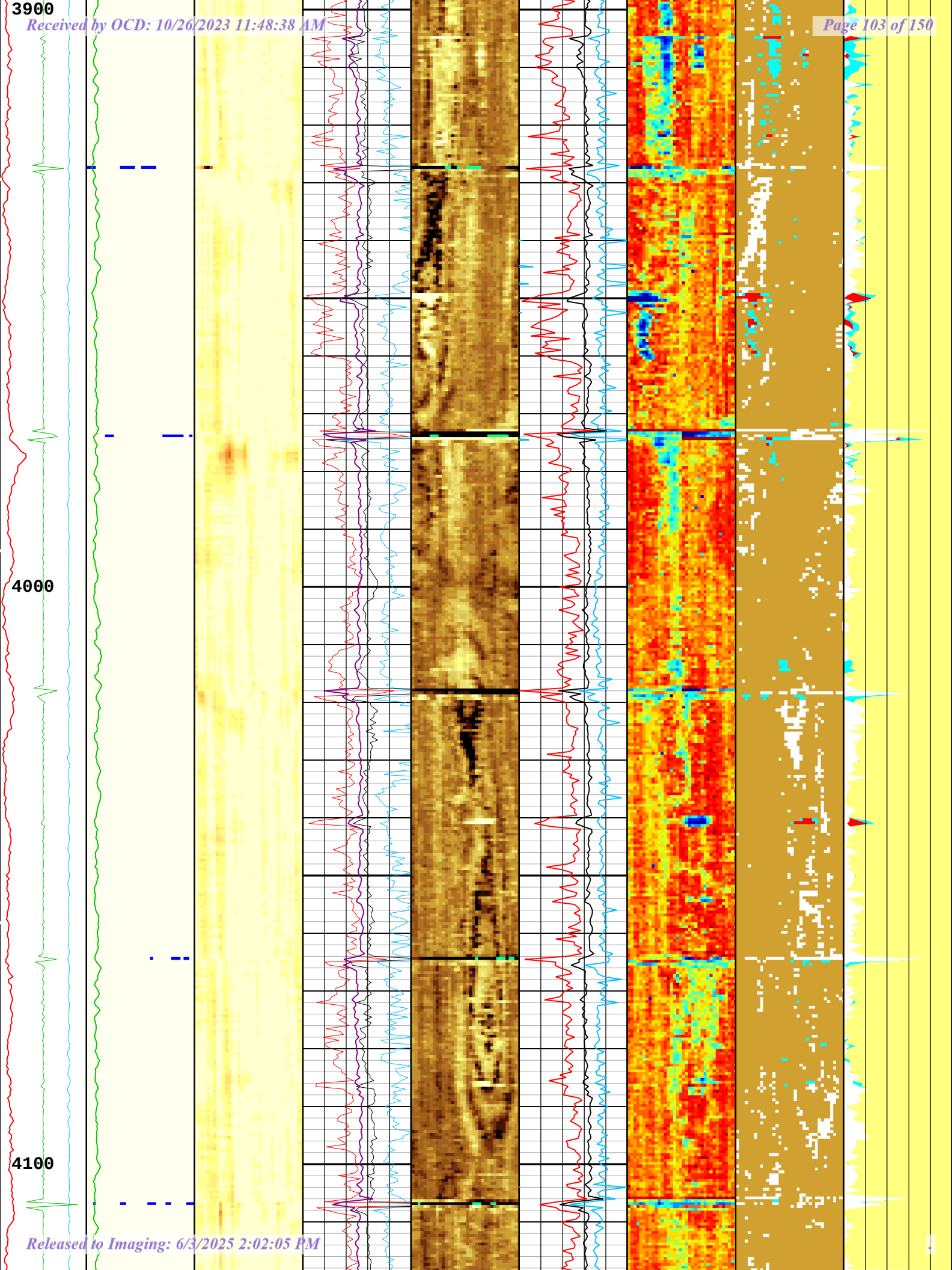

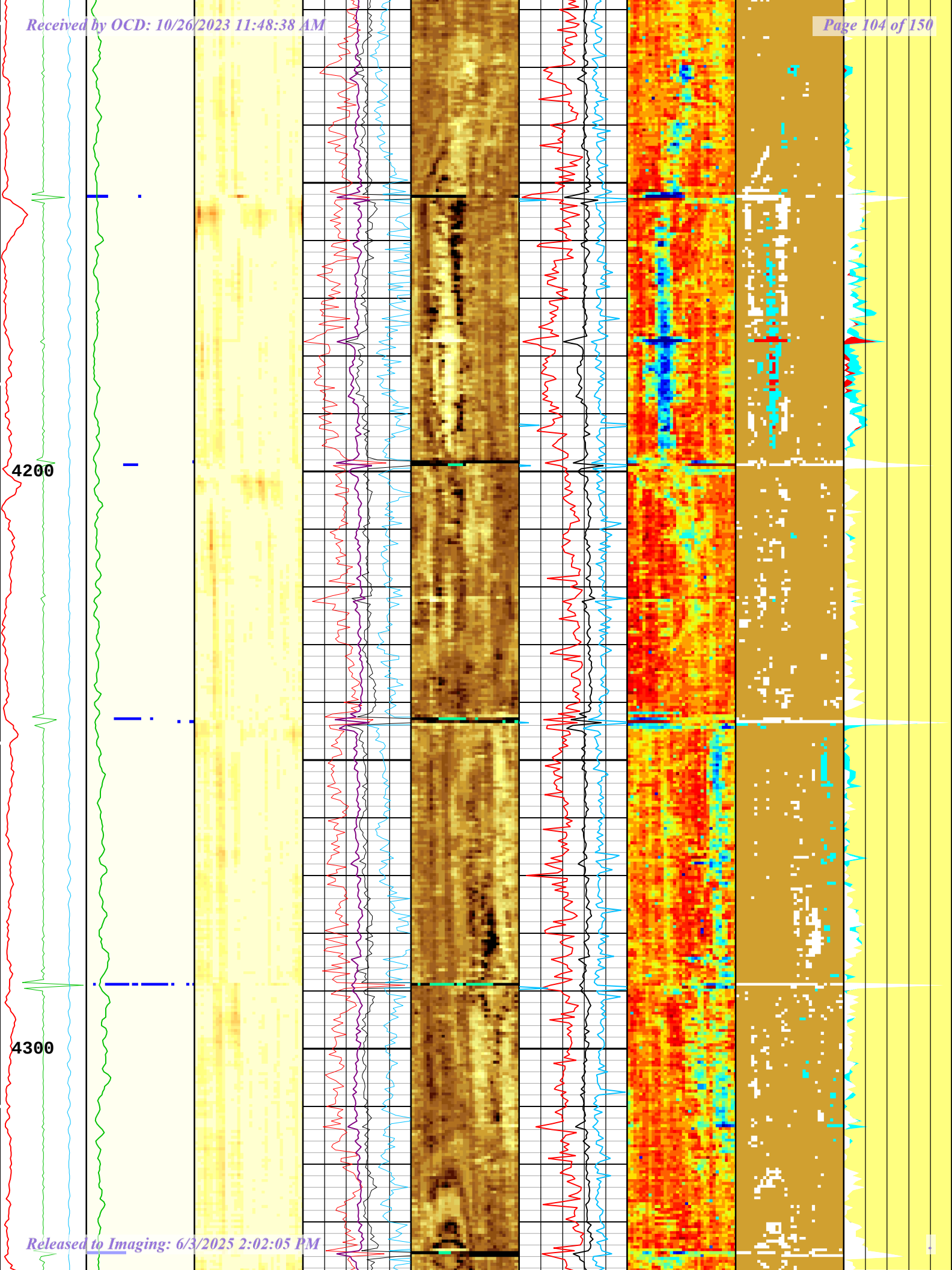
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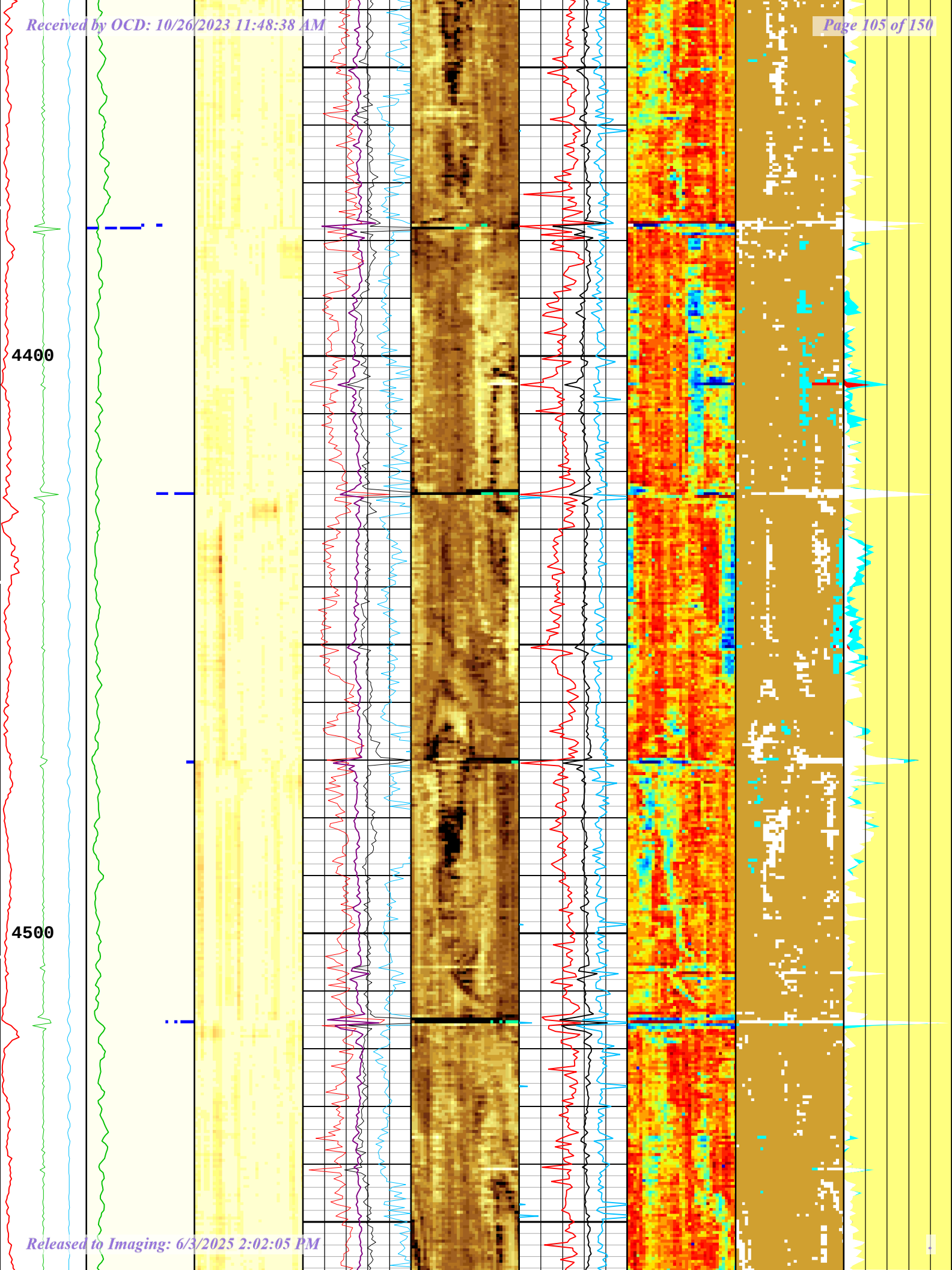
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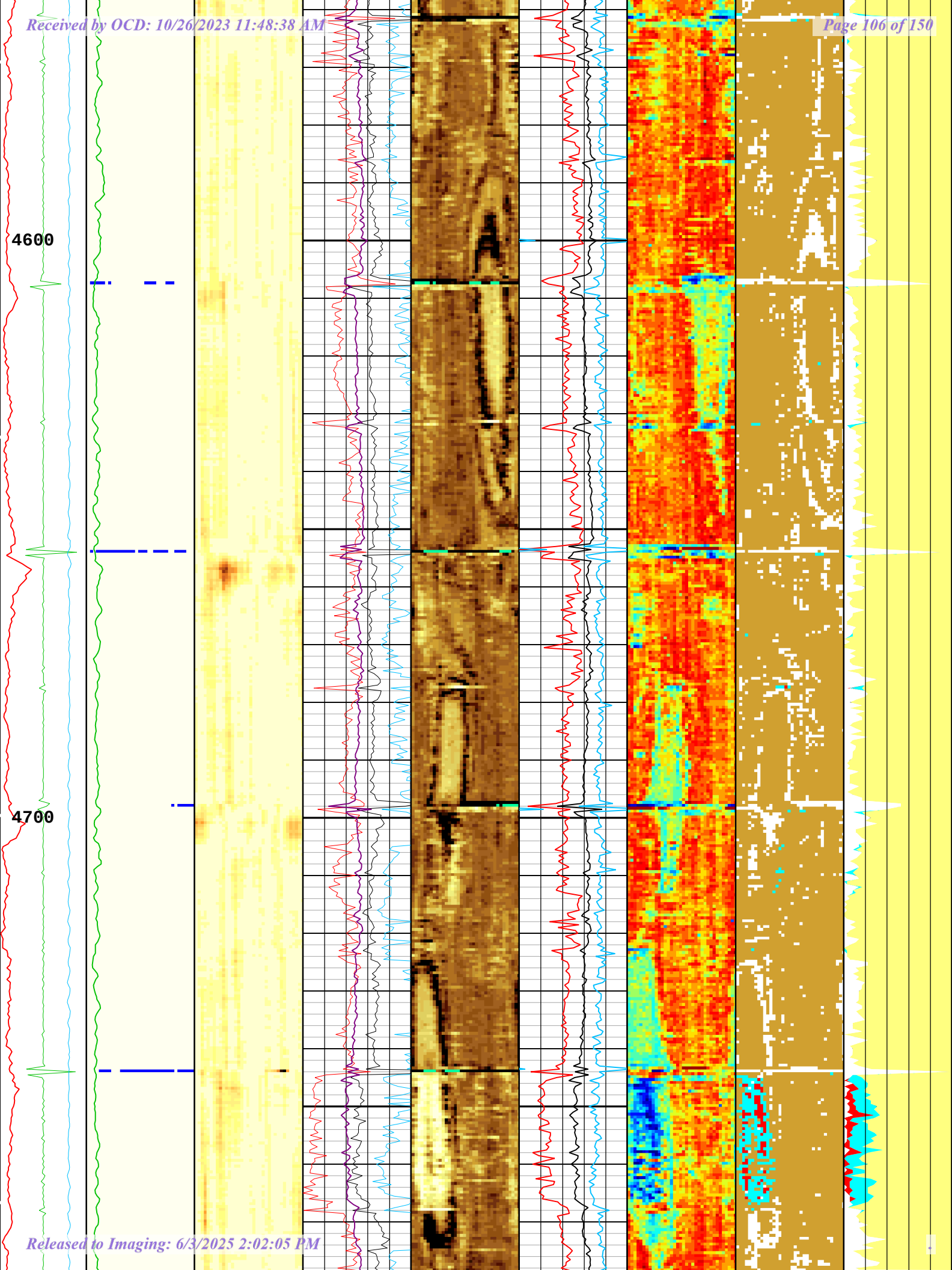
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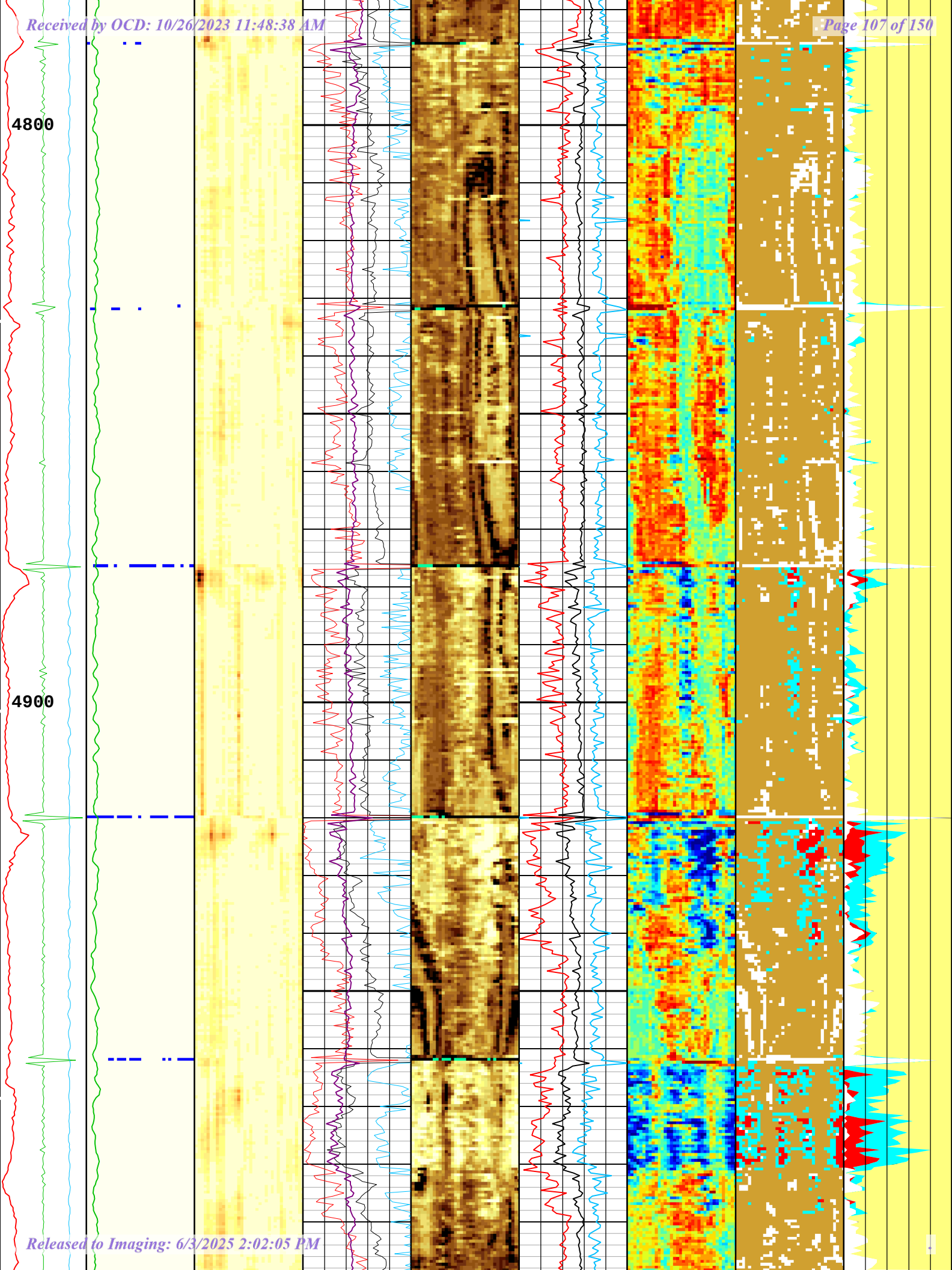

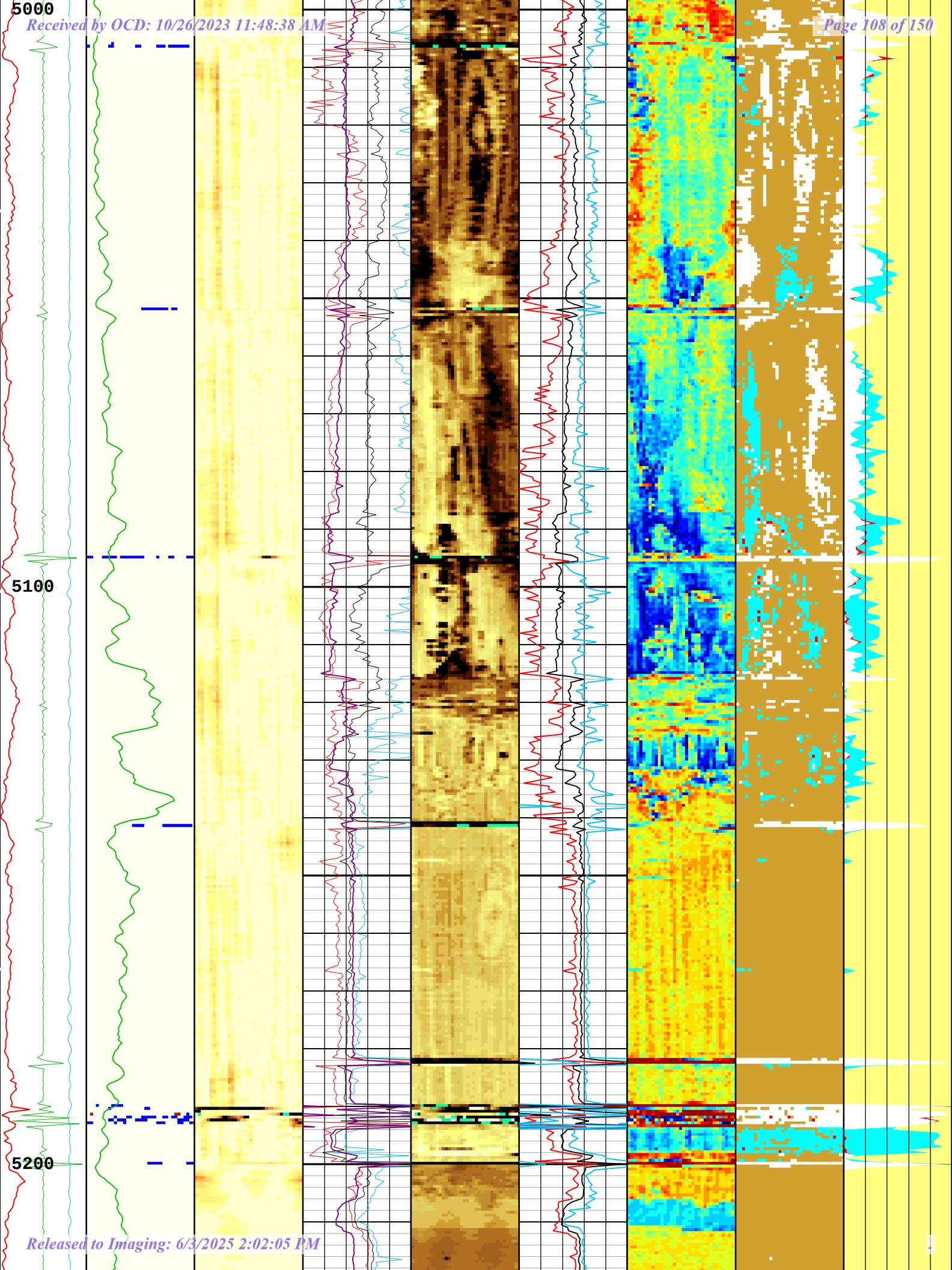

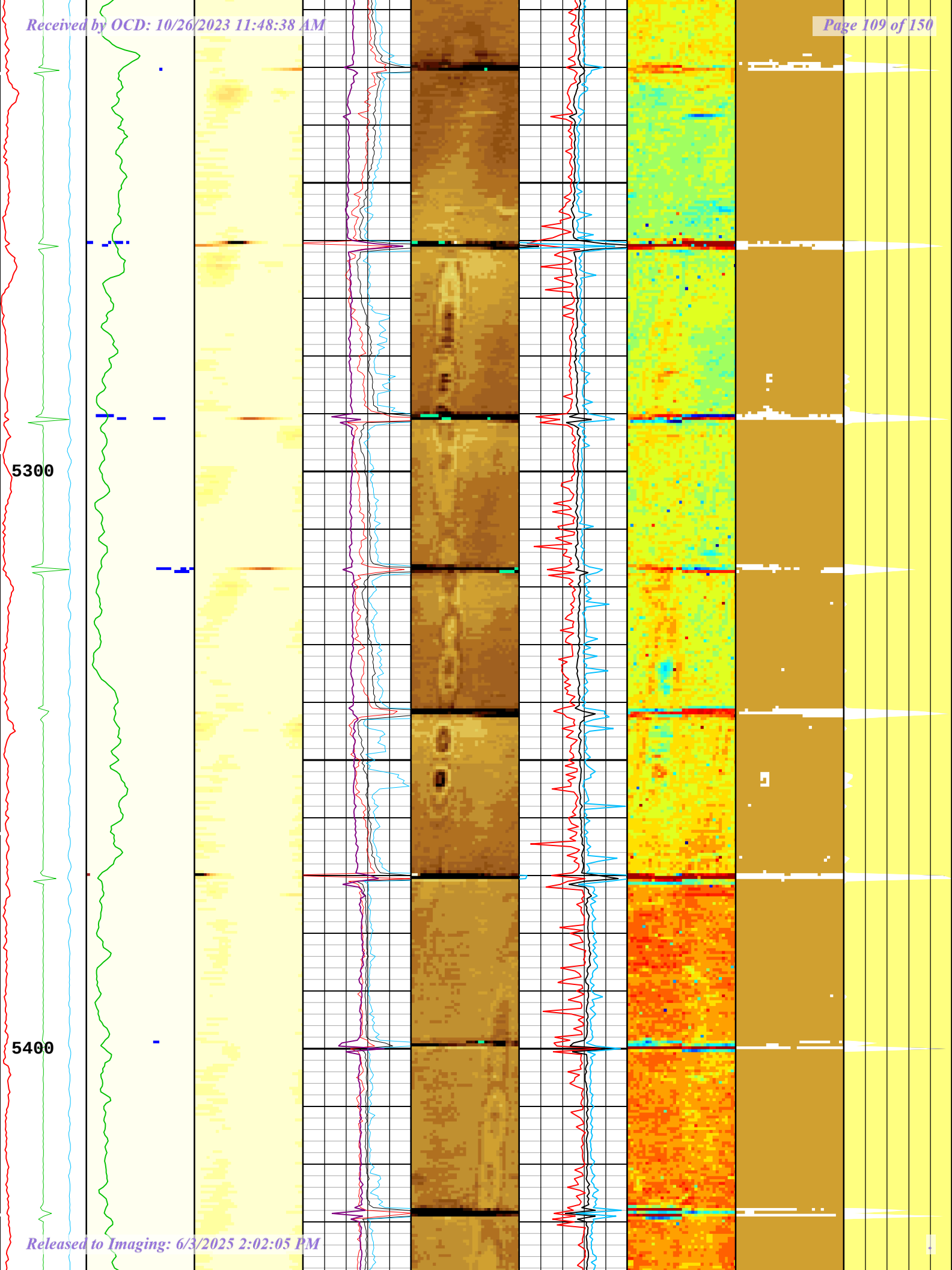
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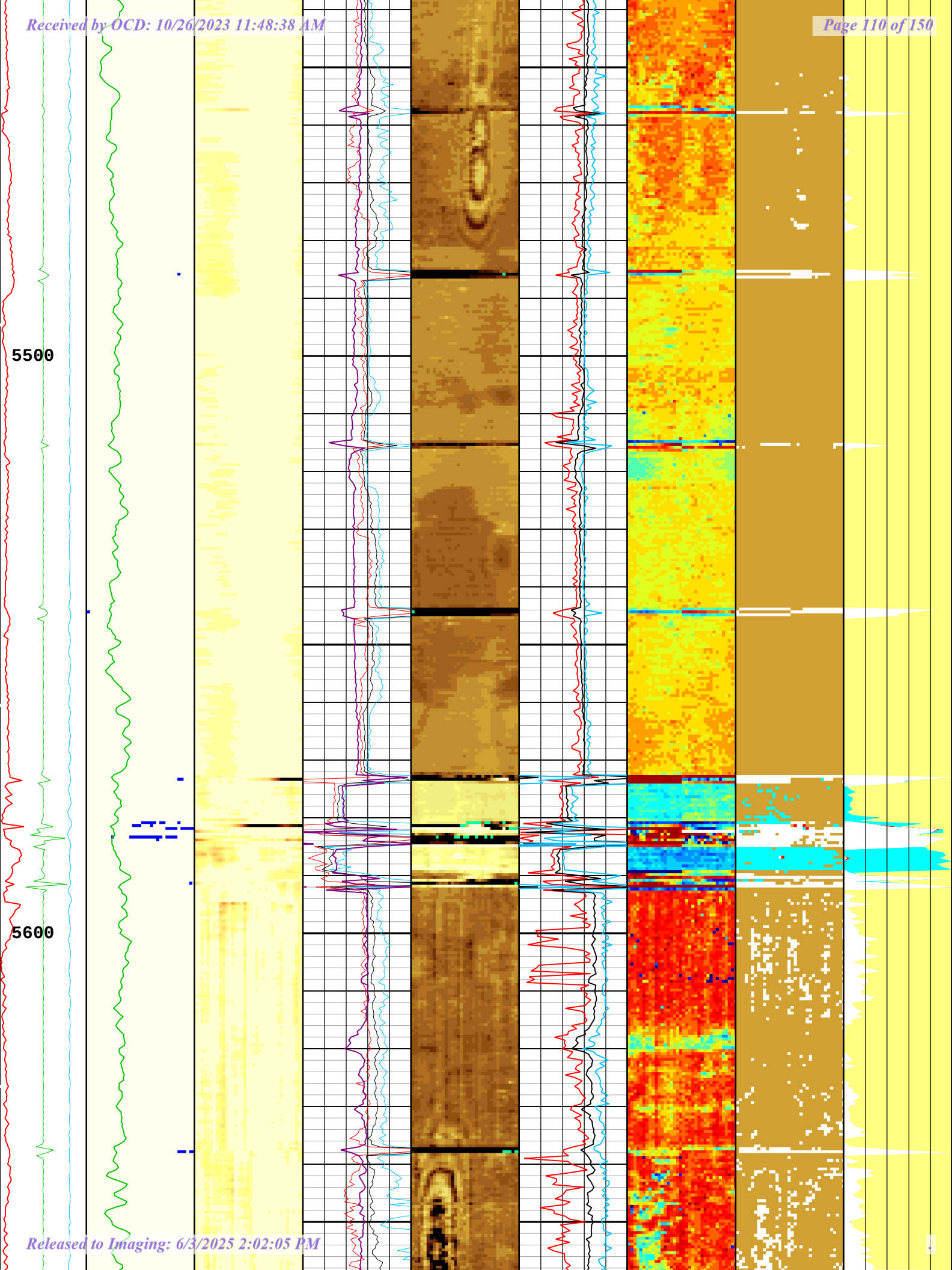
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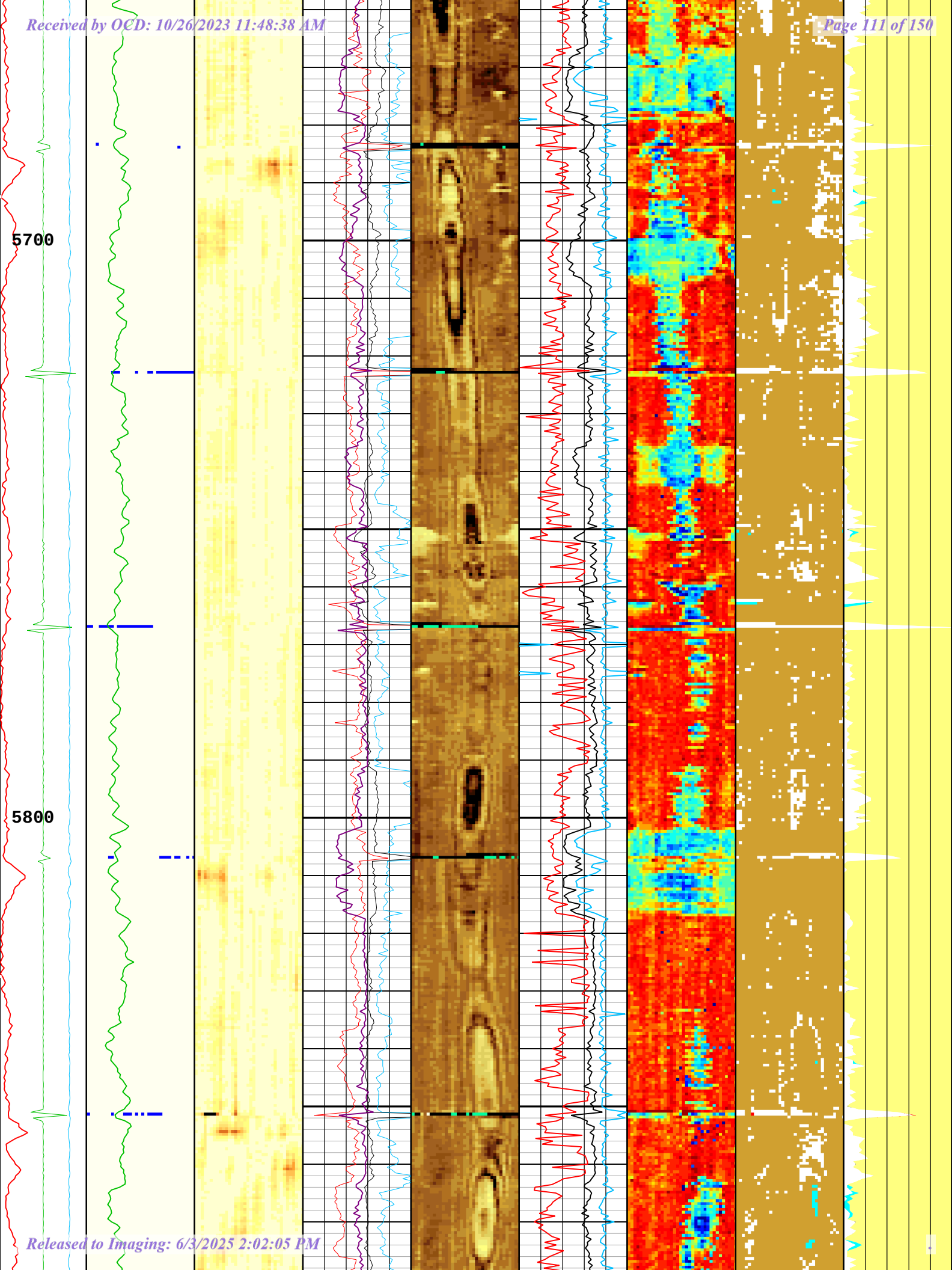

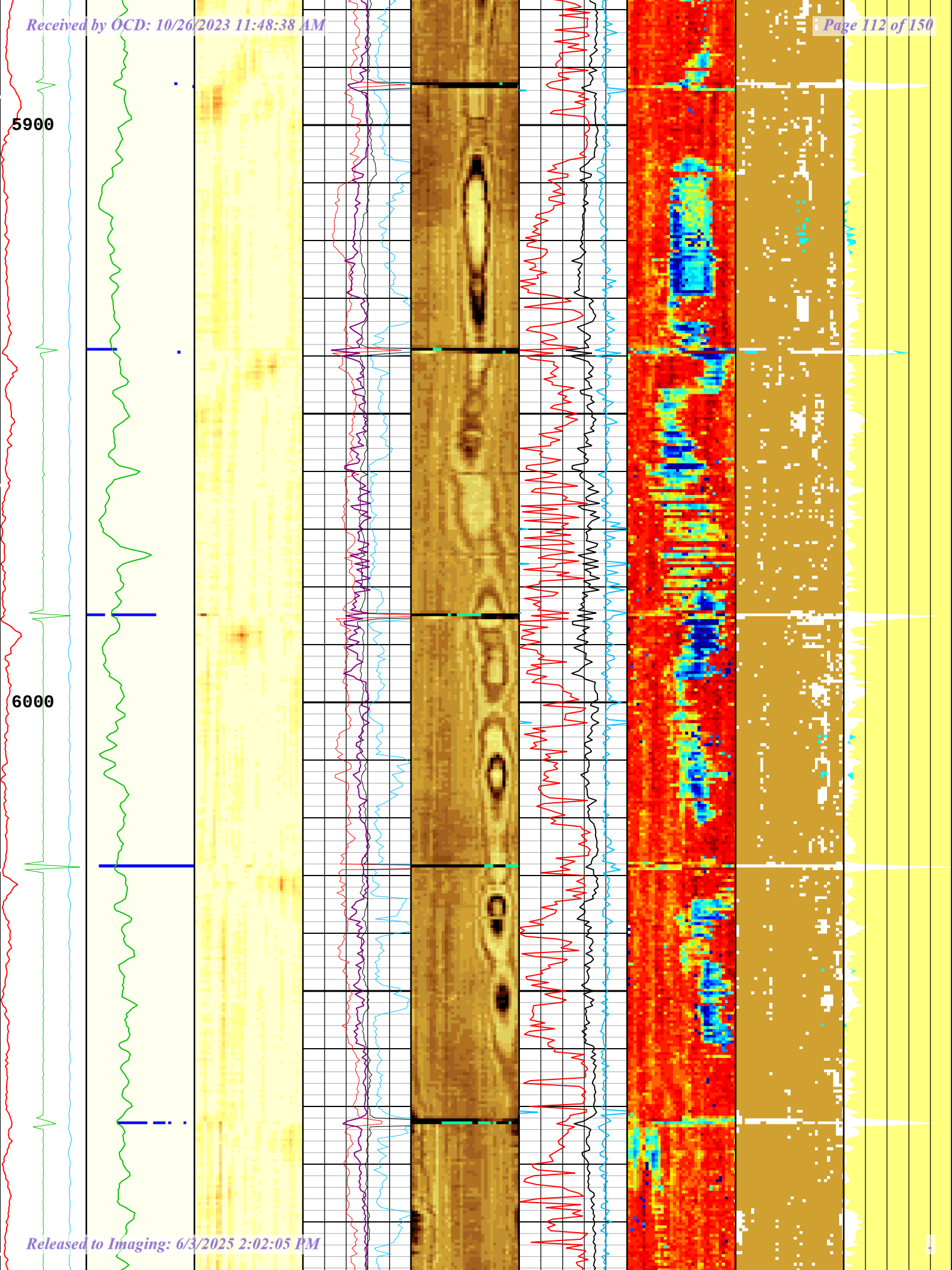
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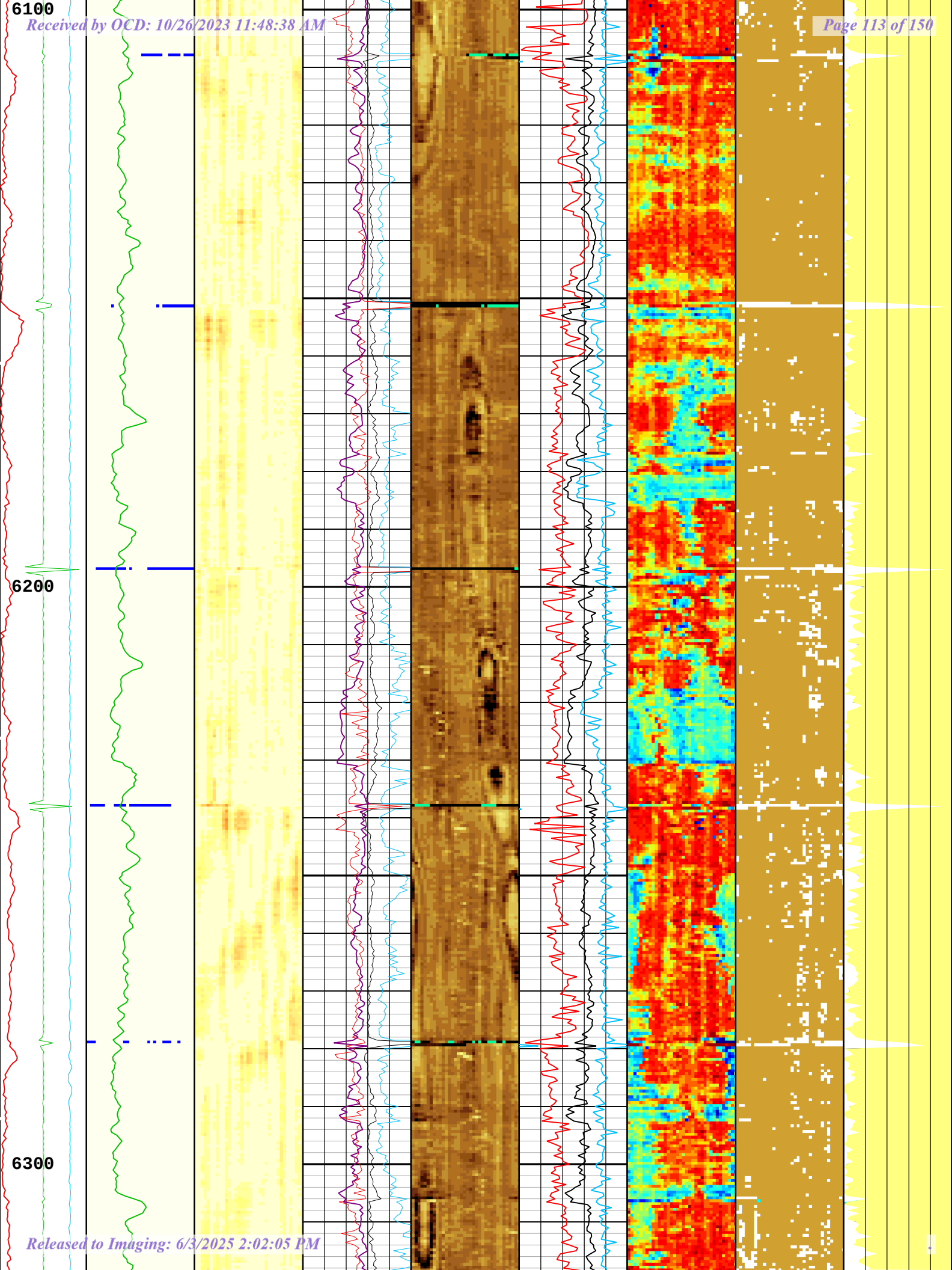

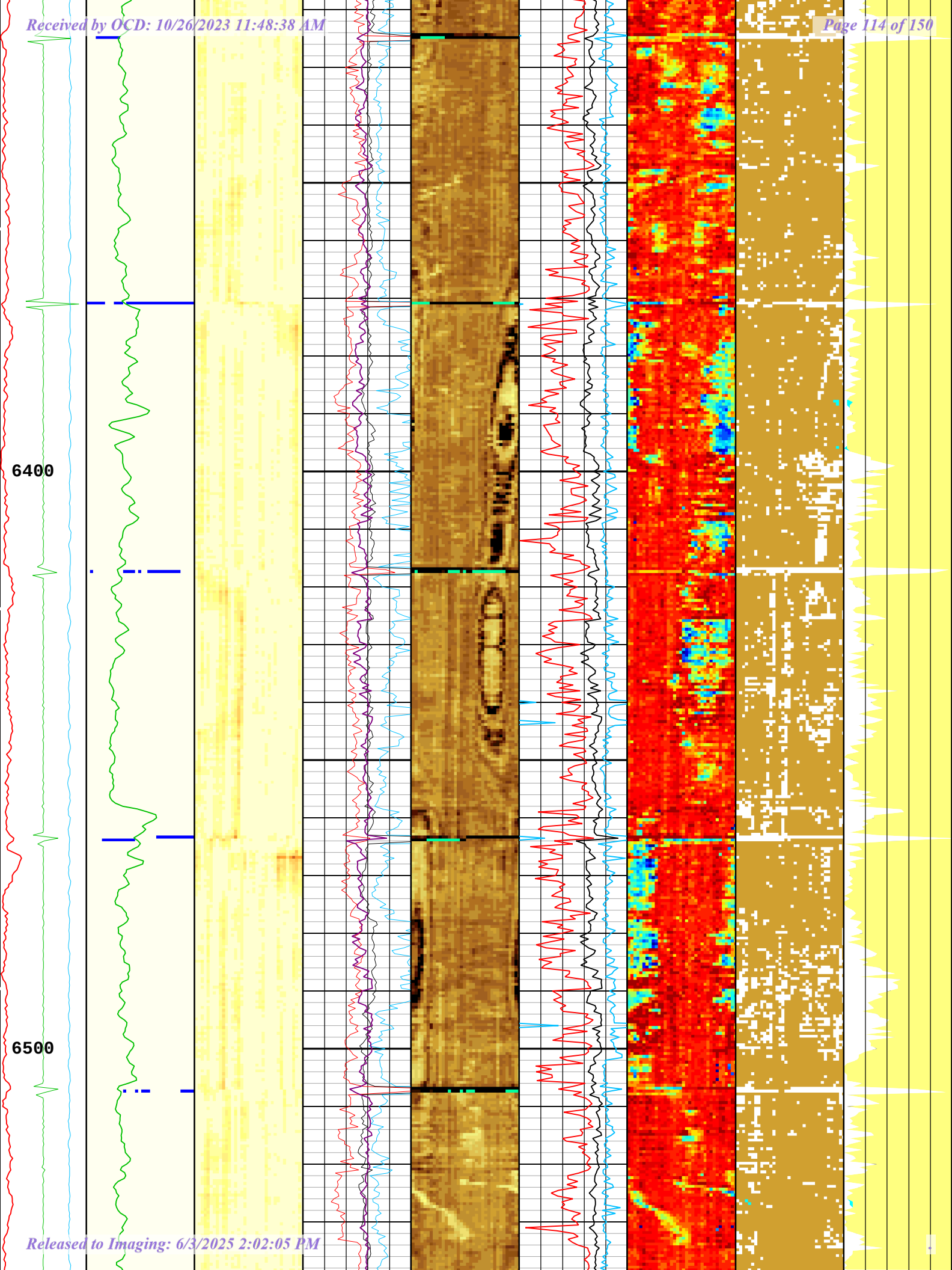
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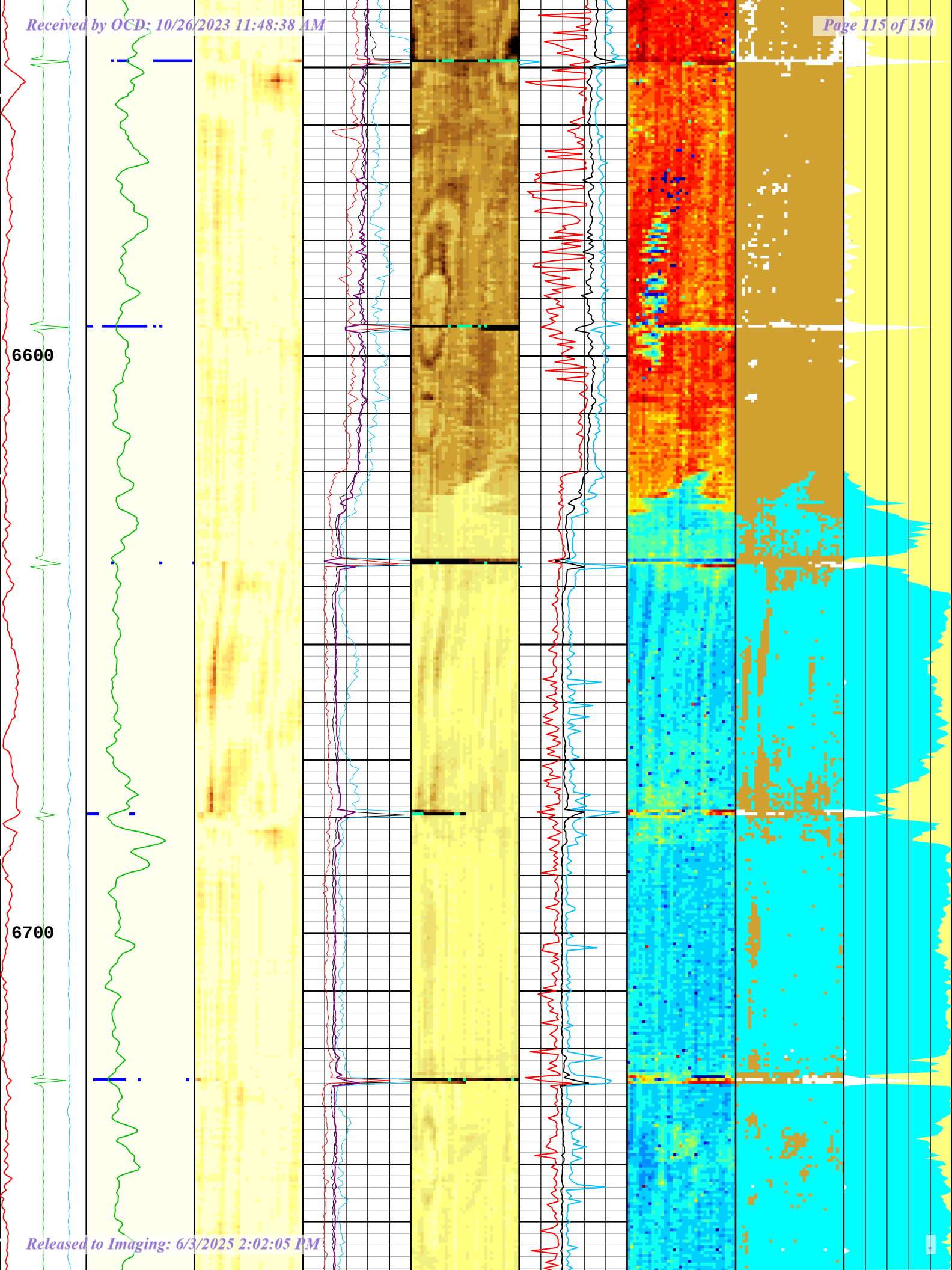
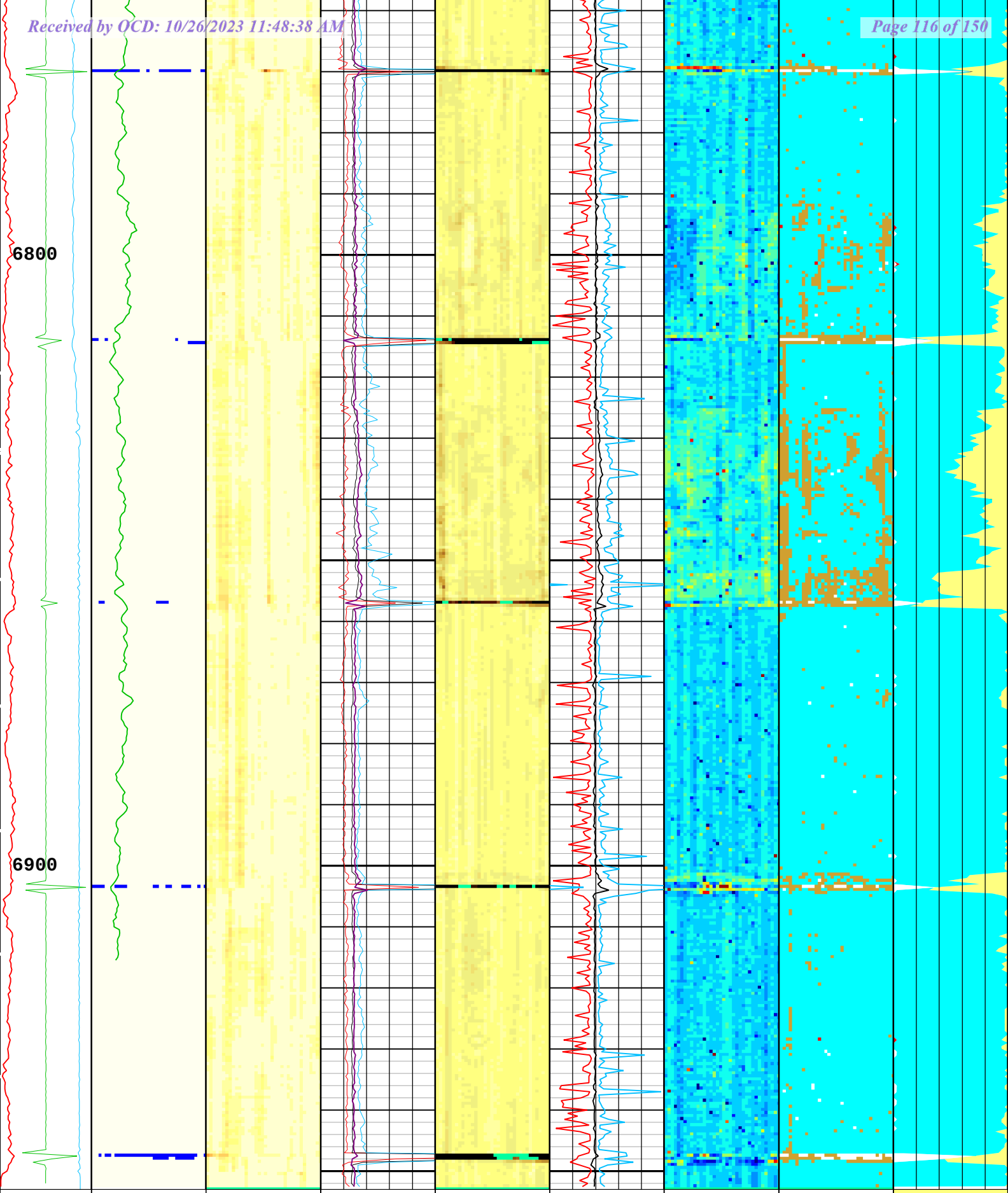




Casing Collar Locator Ultrasonic (CCLU) USIT-E

-20 ... 20

Amplitude of

Absent 1.500 3.500

Explicit Normalization

USIT - USIT Processing Flags

Absent -5.200 -3.600 -2.000 -0.400

Explicit Normalization

of Wave (AWBK)

Acoustic Impedance Minimum (AIMN) USIT-E

-1 Mrayl 9

Acoustic

Absent 1.500 3.500 5.500 7.500

Custom Normalization

USIT - Acoustic Impedance

Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E

0 dB/m 150

Average Flexural

Absent 42.000 66.000 90.000 114.000

Custom Normalization

USIT - Flexural Attenuation

Absent 0.500 1.500 2.500 3.500

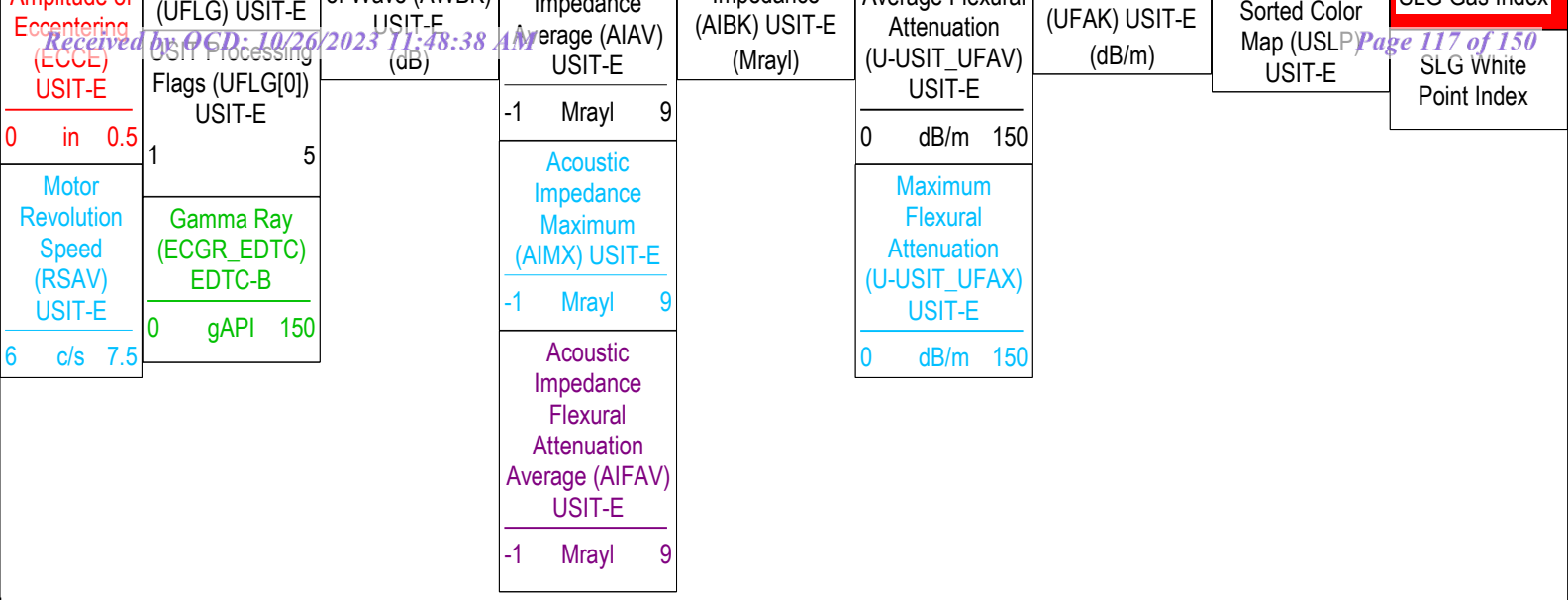
Explicit Normalization

USIT - Solid Liquid Gas

SLG Solid Index

SLG Liquid Index

SLG Gas Index



TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error
Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop Processing Error

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:54:51

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	7050	ft
CDEN	Cement Density	USIT-E	10	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FD	Fluid Density	USIT-E	9.2	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_CTHI_SEL	IBC Casing Thickness Selector	USIT-E	THBK+THAV	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-17.47	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	

IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.48	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	
RCOD	Reference Calibrator Outer Diameter	USIT-E	7	in
RCSO	Reference Calibrator Standoff	USIT-E	1.181	in
RCTH	Reference Calibrator Thickness	USIT-E	0.295	in
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.65	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-12	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.64	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	15	50	3163
BS	12.25	3163	5100
BS	8.75	5100	6953

All depth are actual.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	5	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 300 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	38_DEG	

VRES	Vertical Resolution	USIT-E	6.0 in	

1A

Main Pass 2" = 100'

Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Main[5]:Up	Up	25.85 ft	6953.92 ft	18-Oct-2023 10:50:19 PM	19-Oct-2023 1:52:27 AM	ON	-6.74 ft	Yes

All depths are referenced to toolstring zero

Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Main[5]:Up:S014

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite 7.0IN) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Oct-2023 02:55:12

TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error
Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop Processing Error

Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Absent -5.200 -3.600 -2.000 -0.400
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E (dB)

External Radii Average (ERAV) USIT-E
3.7 in 2.7

Internal Radius Averaged Value (IRAV) USIT-E
3.7 in 2.7

Internal Radius Maximum Value (IRMX) USIT-E
3.7 in 2.7

Internal Radius Minimum Value (IRMN) USIT-E
3.7 in 2.7

External Radii Average (ERAV) USIT-E
2.7 in 3.7

Internal Radius Averaged Value (IRAV) USIT-E
2.7 in 3.7

Internal Radius Maximum Value (IRMX) USIT-E
2.7 in 3.7

Internal Radius Minimum Value (IRMN) USIT-E
2.7 in 3.7

Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Internal Radii Normalized (IRBK) USIT-E (in)

Thickness Minimum Value (THMN) USIT-E
0.1 in 0.6

Thickness Average Value (THAV) USIT-E
0.1 in 0.6

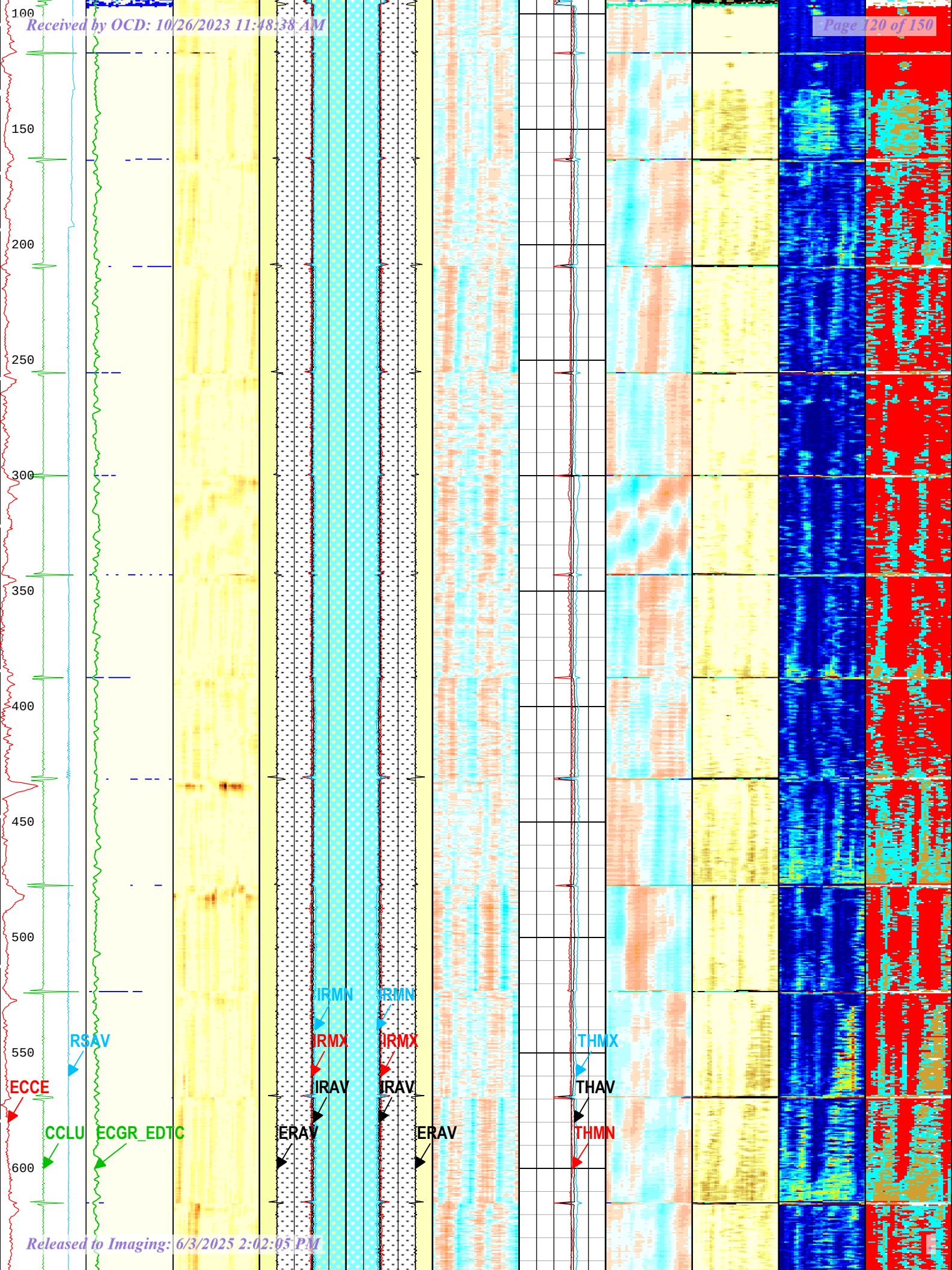
Thickness Maximum Value (THMX) USIT-E
0.1 in 0.6

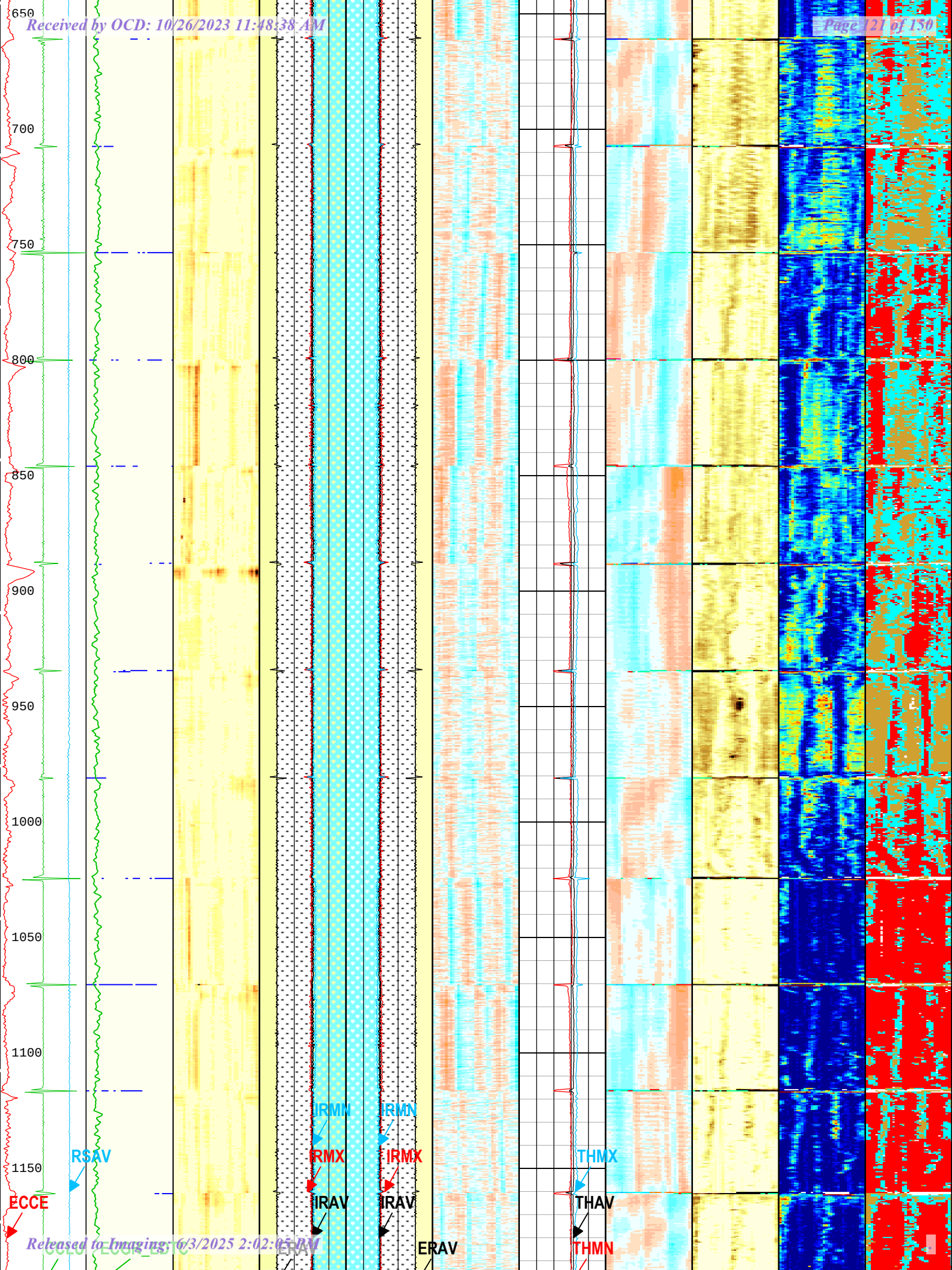
Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Casing Thickness Normalized (THBK) USIT-E (in)

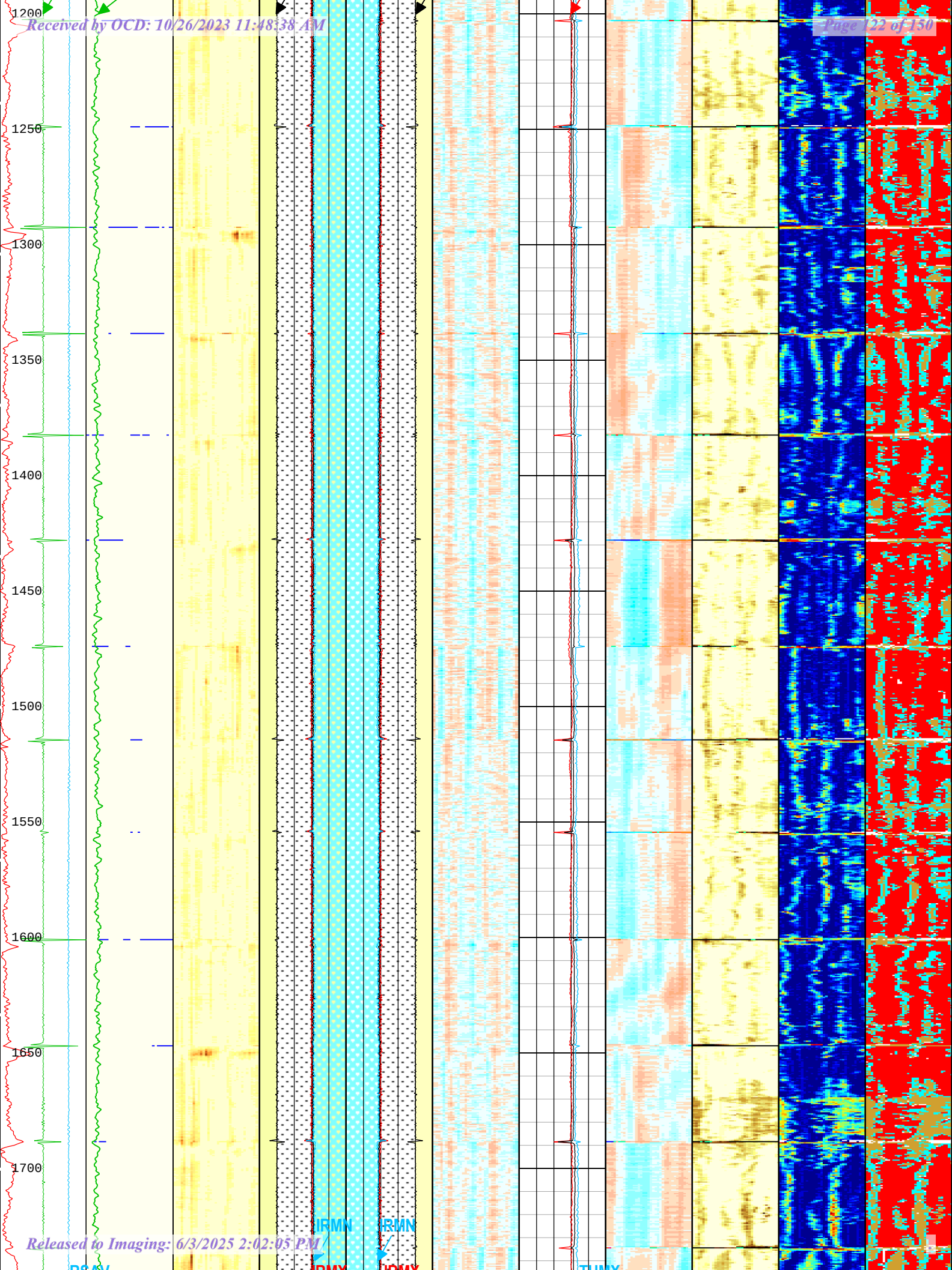
Absent 1.500 3.500 5.500 7.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

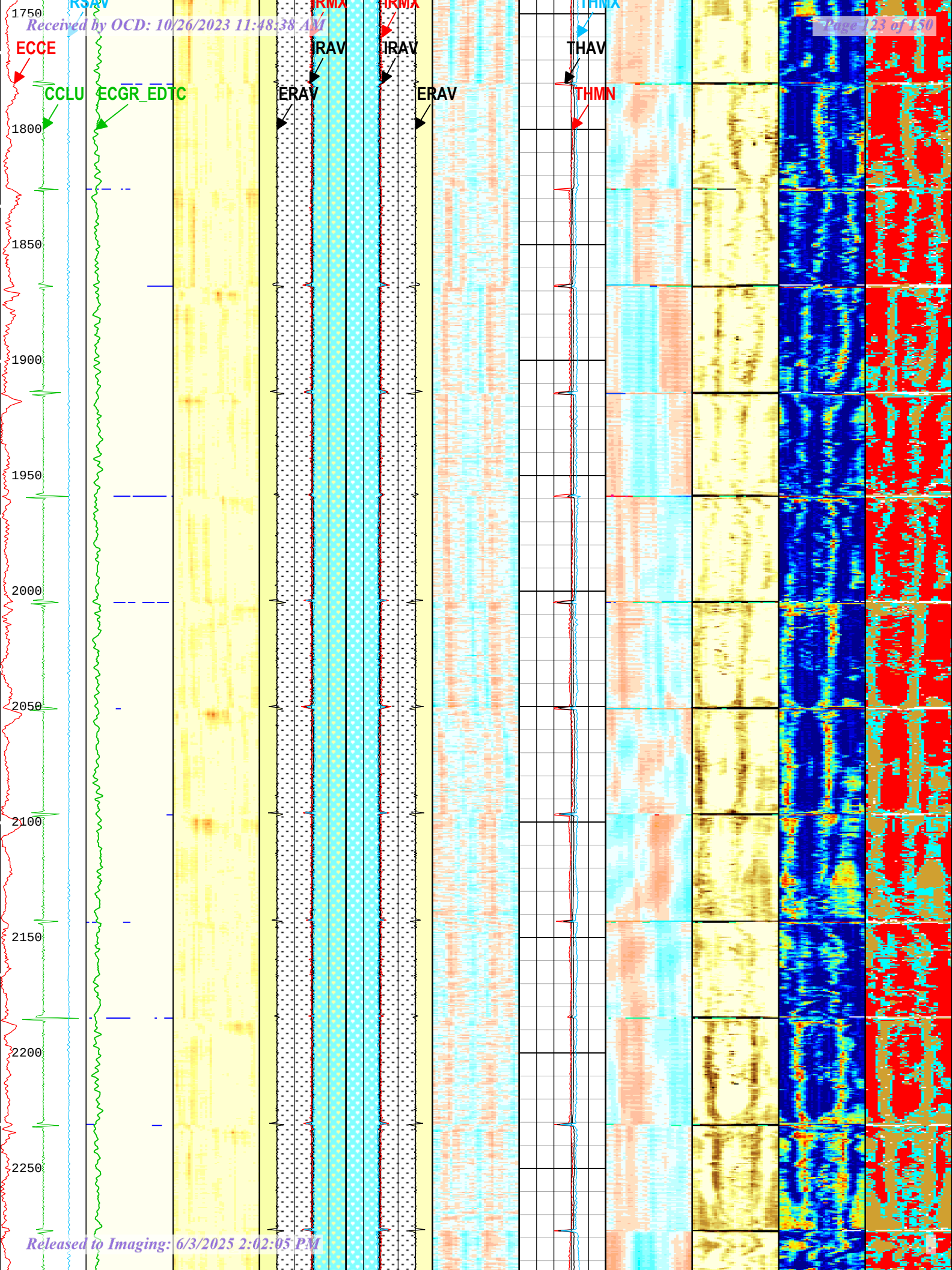
Absent 42.000 66.000 90.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

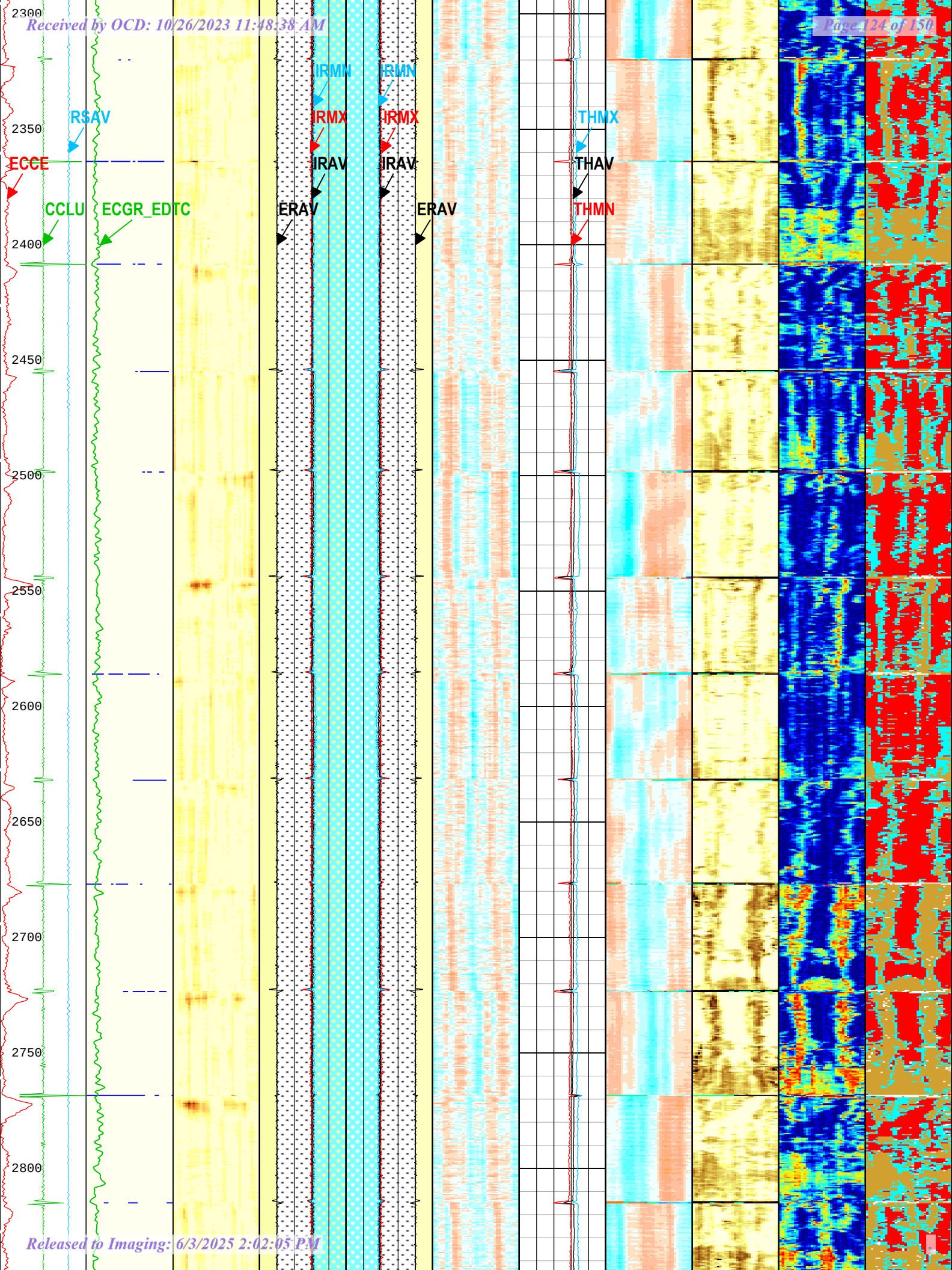
Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

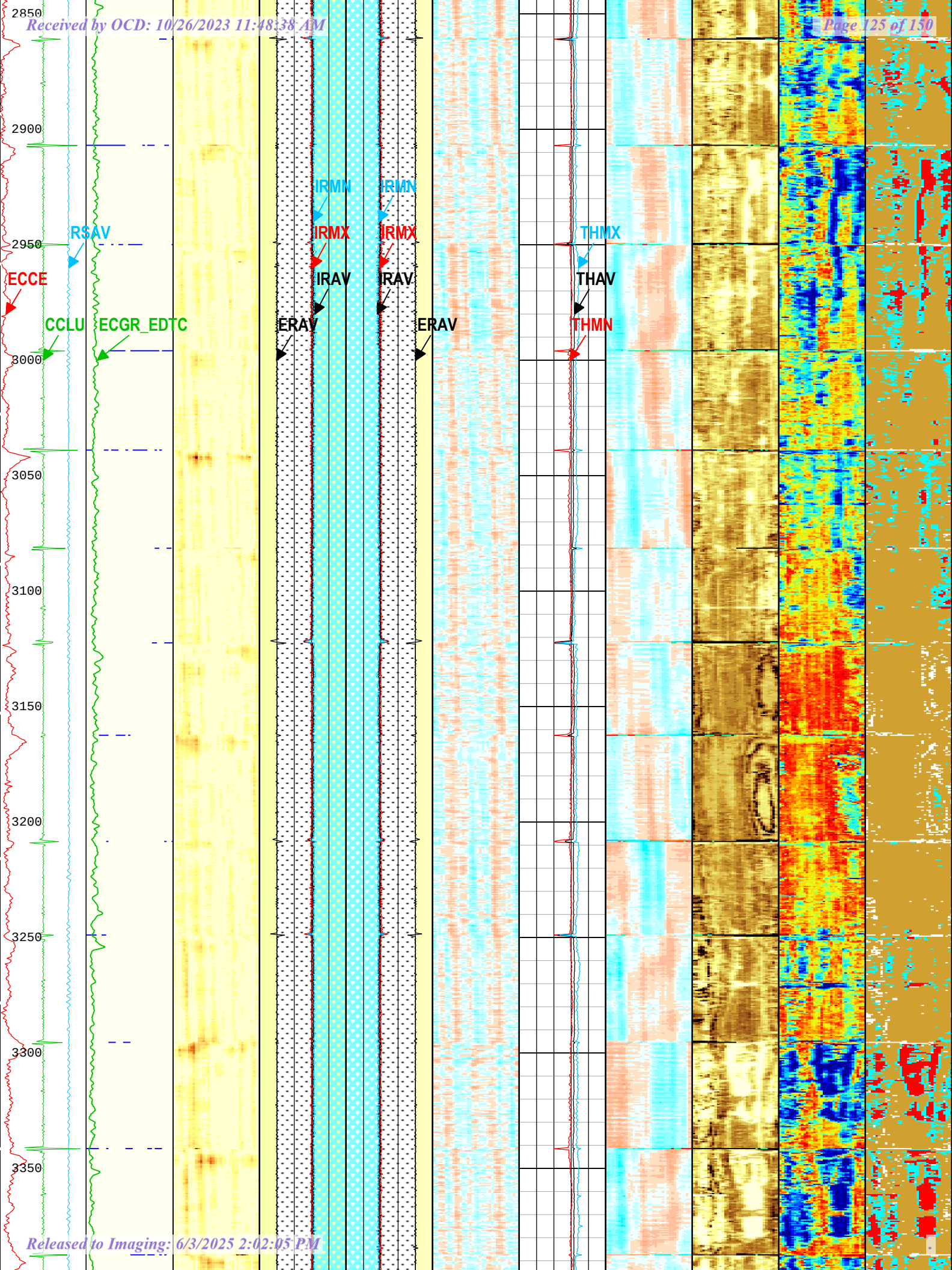


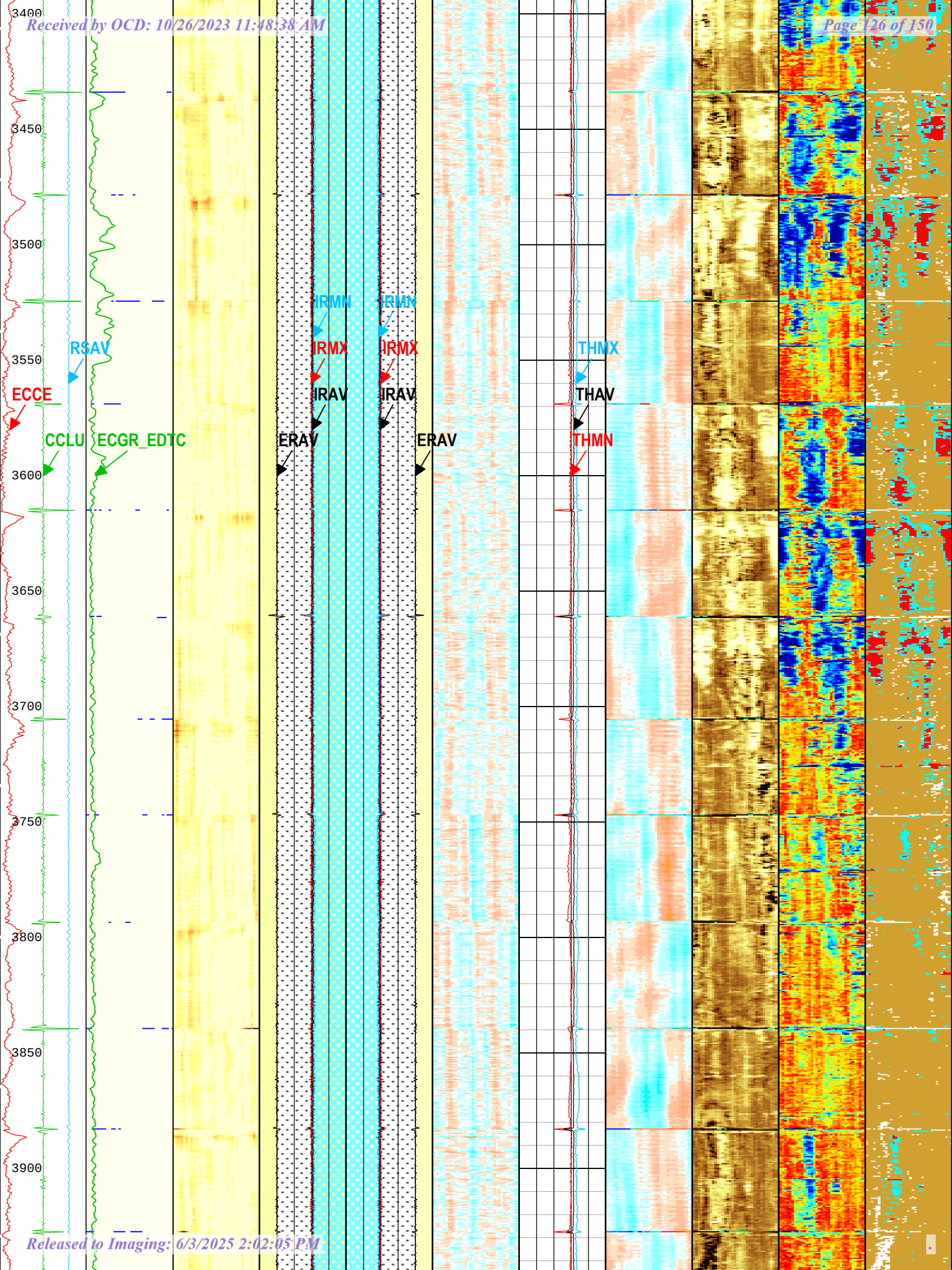








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3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
RSAV
ECCE
CCLU
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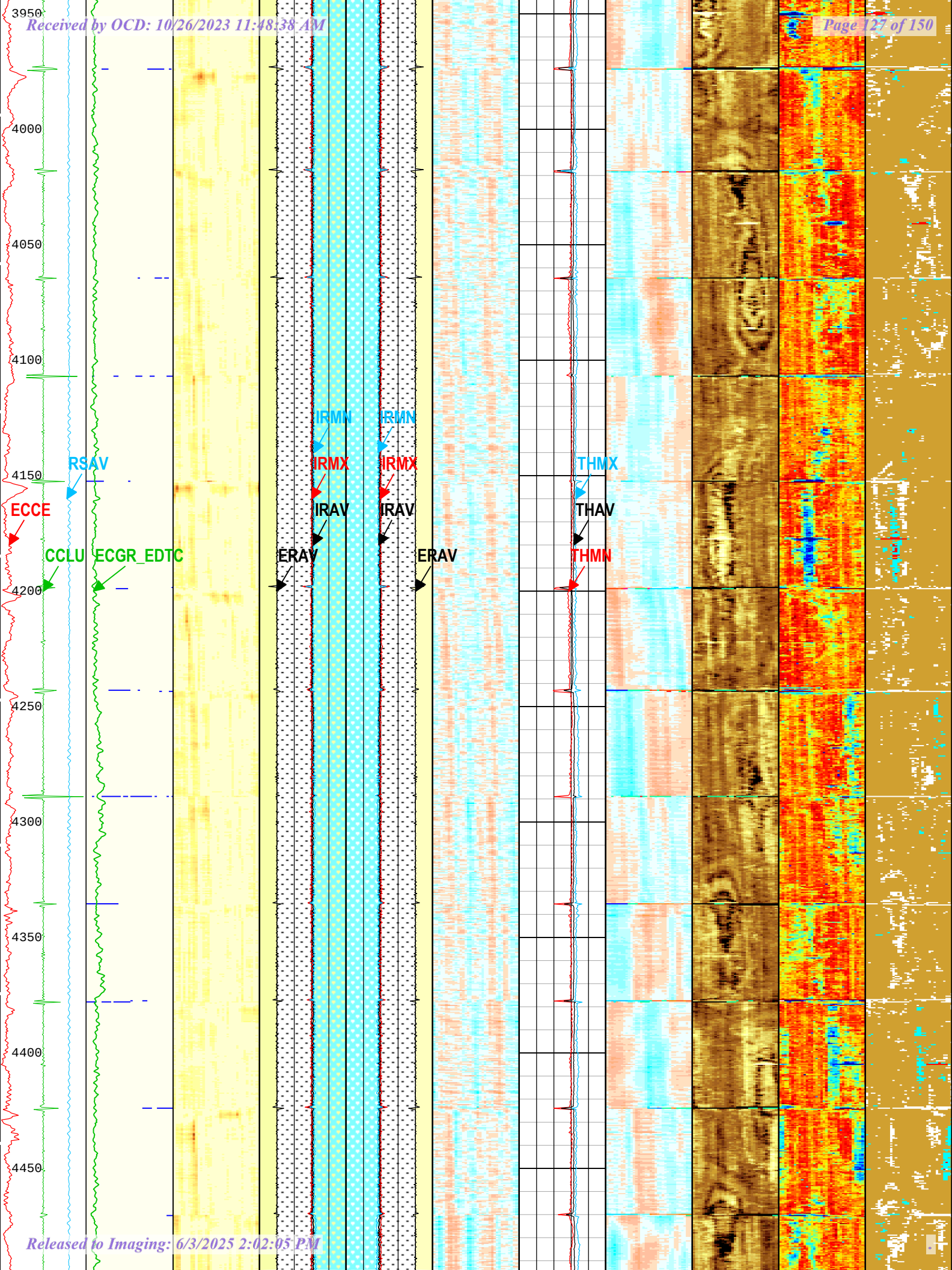
IRMN
IRMX
IRAV
ERAV
IRMN
IRMX
IRAV
ERAV
THMX
THAV
THMN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4000
4050
4100
4150
4200
4250
4300
4350
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4450
RSAV
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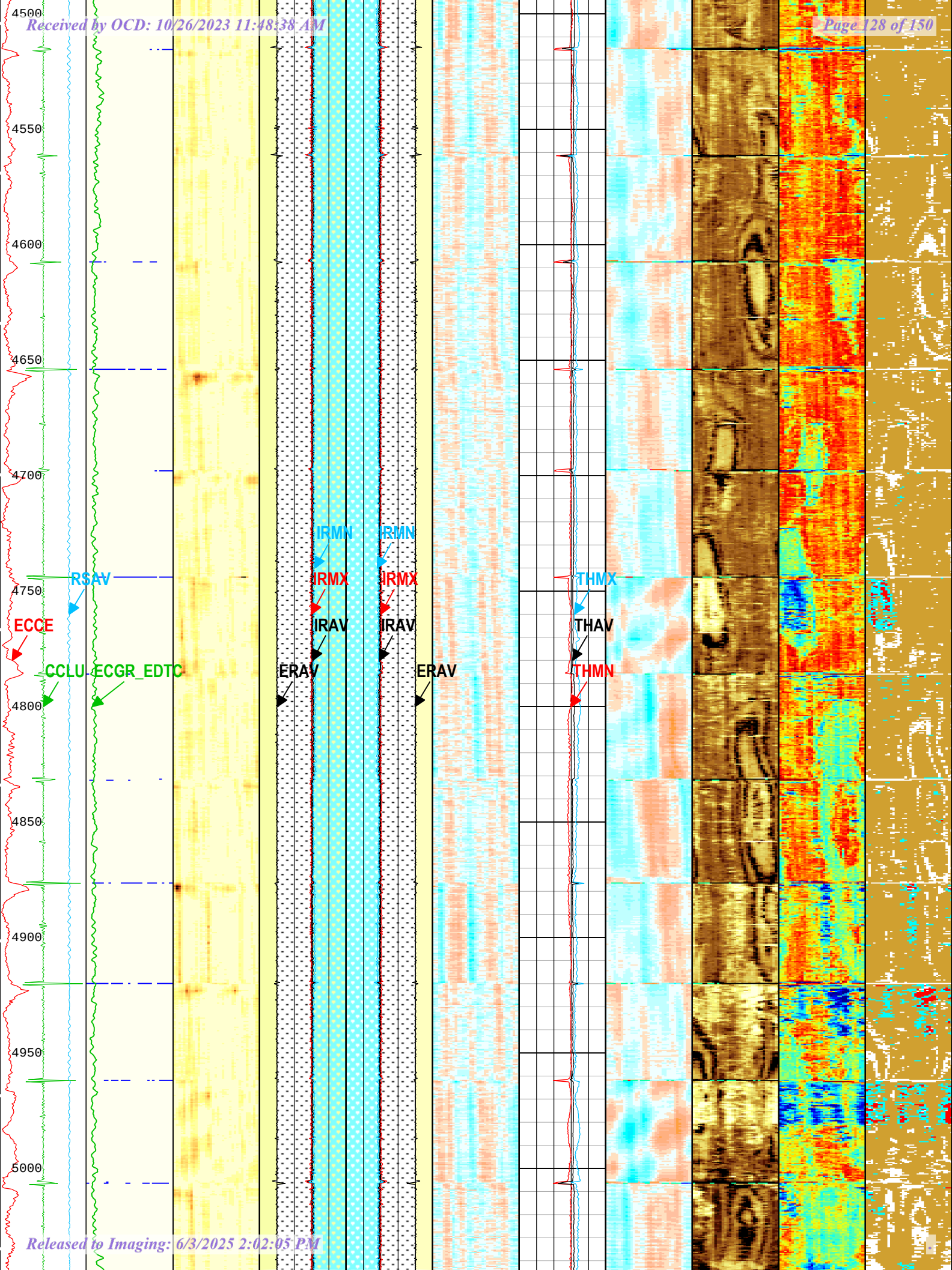
THMX
THAV
THMN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4550
4600
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4750
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4850
4900
4950
5000
IRMN
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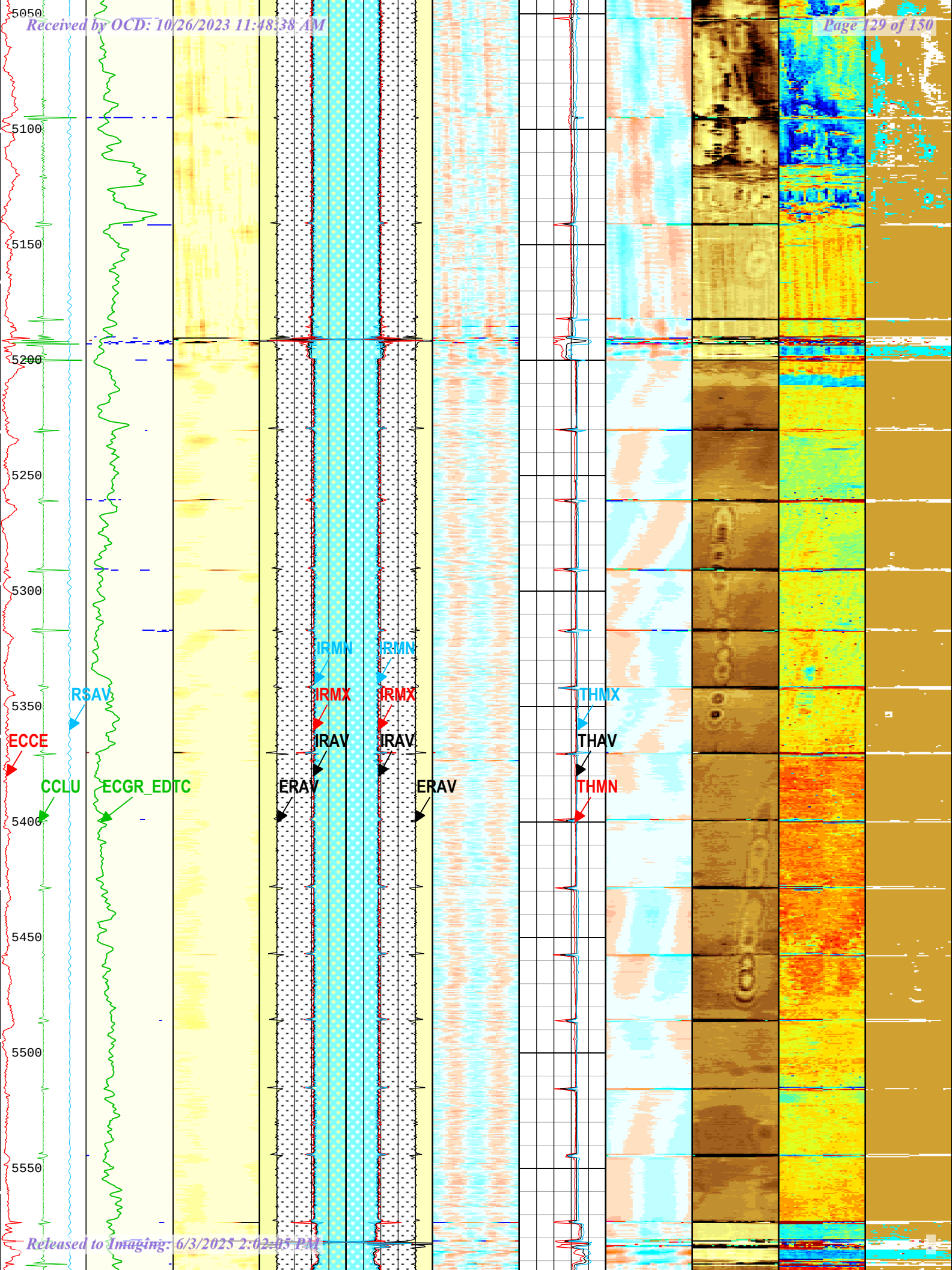
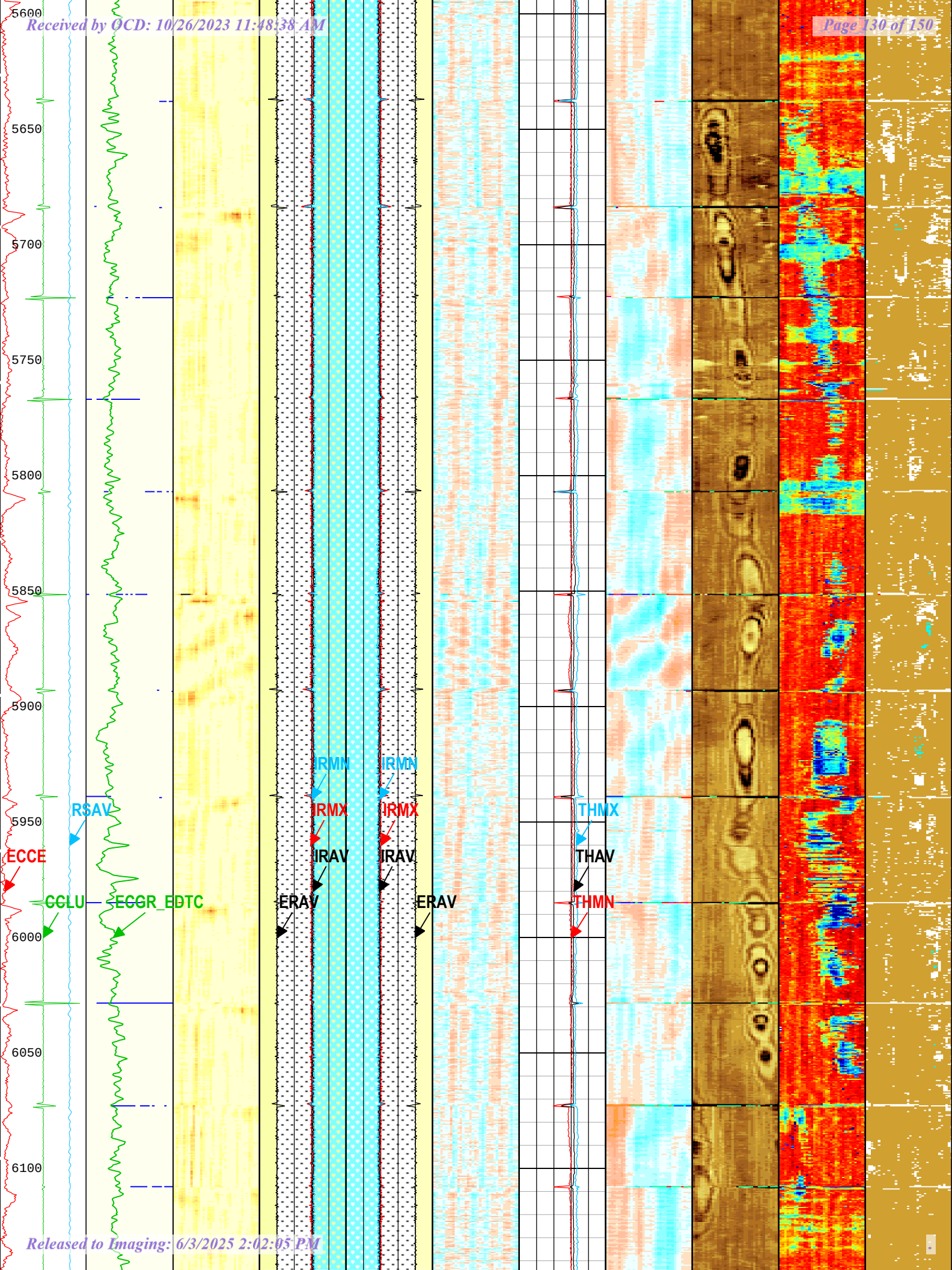
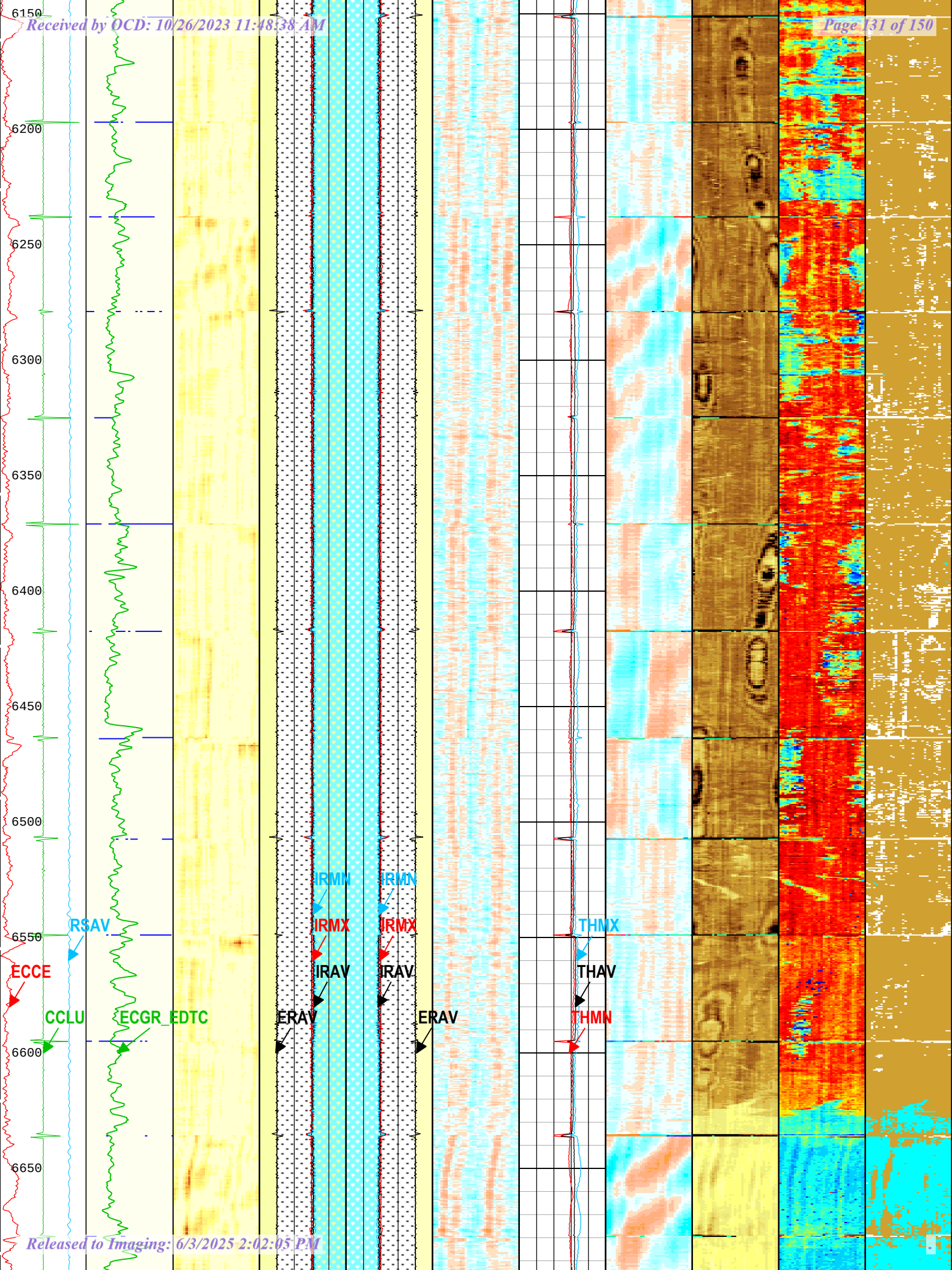
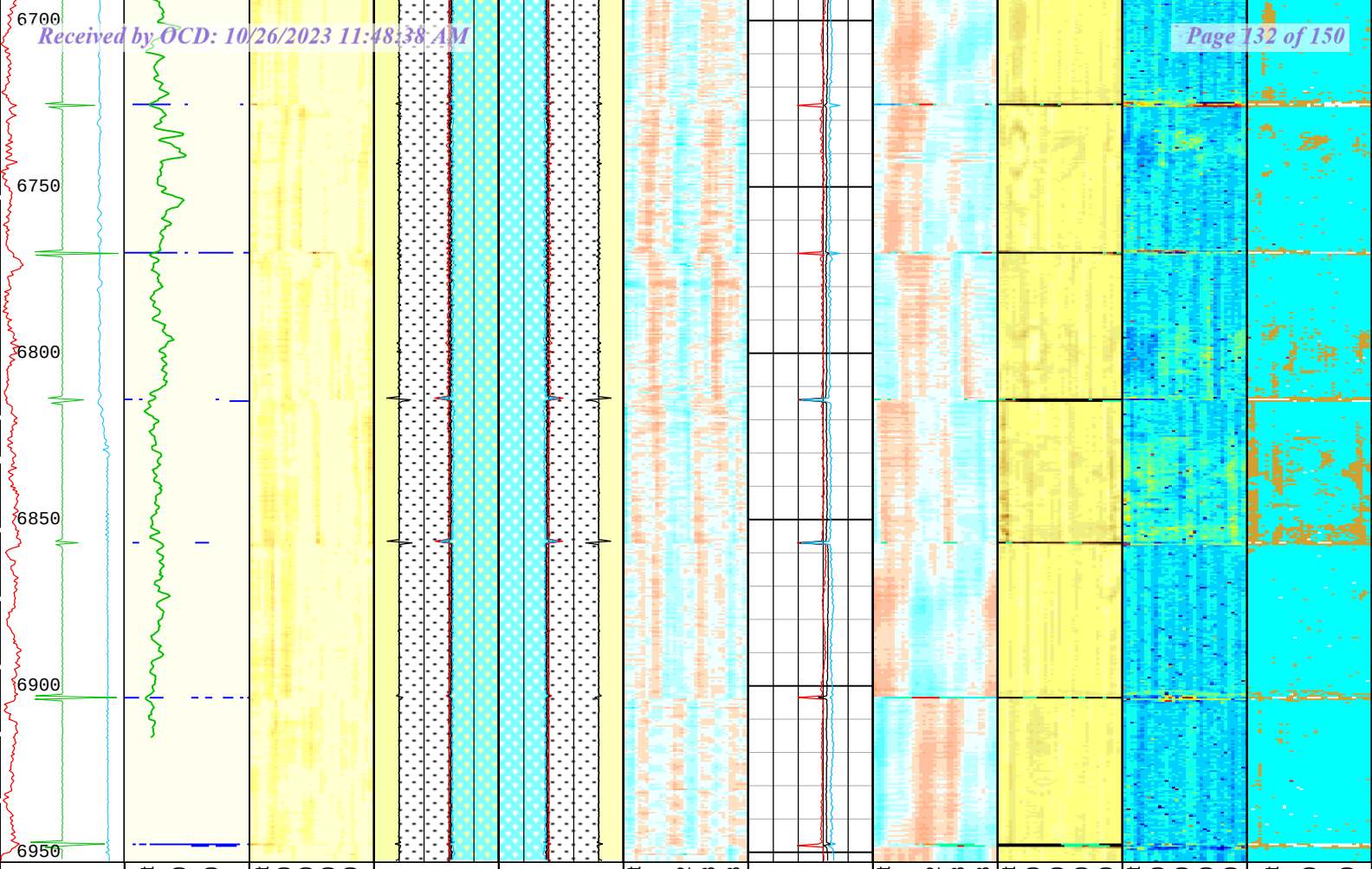
ERAV
THMN









Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Absent -5.200 -3.600 -2.000 -0.400
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E
(dB)

External Radii Average (ERAV) USIT-E
3.7 in 2.7

Internal Radius Averaged Value (IRAV) USIT-E
3.7 in 2.7

Internal Radius Maximum Value (IRMX) USIT-E
3.7 in 2.7

Internal Radius Minimum Value (IRMN) USIT-E
3.7 in 2.7

External Radii Average (ERAV) USIT-E
2.7 in 3.7

Internal Radius Averaged Value (IRAV) USIT-E
2.7 in 3.7

Internal Radius Maximum Value (IRMX) USIT-E
2.7 in 3.7

Internal Radius Minimum Value (IRMN) USIT-E
2.7 in 3.7

Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Internal Radii Normalized (IRBK) USIT-E
(in)

Thickness Minimum Value (THMN) USIT-E
0.1 in 0.6

Thickness Average Value (THAV) USIT-E
0.1 in 0.6

Thickness Maximum Value (THMX) USIT-E
0.1 in 0.6

Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Casing Thickness Normalized (THBK) USIT-E
(in)

Absent 1.500 3.500 5.500 7.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E
(Mrayl)

Absent 42.000 66.000 90.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E
(dB/m)

Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error
Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop Processing Error

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite 7.0IN) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Oct-2023 02:55:12

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	7050	ft
CDEN	Cement Density	USIT-E	10	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FD	Fluid Density	USIT-E	9.2	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-17.47	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.48	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.65	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-12	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.64	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	15	50	3163
BS	12.25	3163	5100
BS	8.75	5100	6953

All depth are actual.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
EMXV	EMEX Voltage	USIT-E	5	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	

IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
UPAT	USIT Emission Pattern	USIT-E	Pattern 300 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	38_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	

1A

Main Pass 0.1" = 100'

Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Main[5]:Up	Up	25.85 ft	6953.92 ft	18-Oct-2023 10:50:19 PM	19-Oct-2023 1:52:27 AM	ON	-6.74 ft	Yes

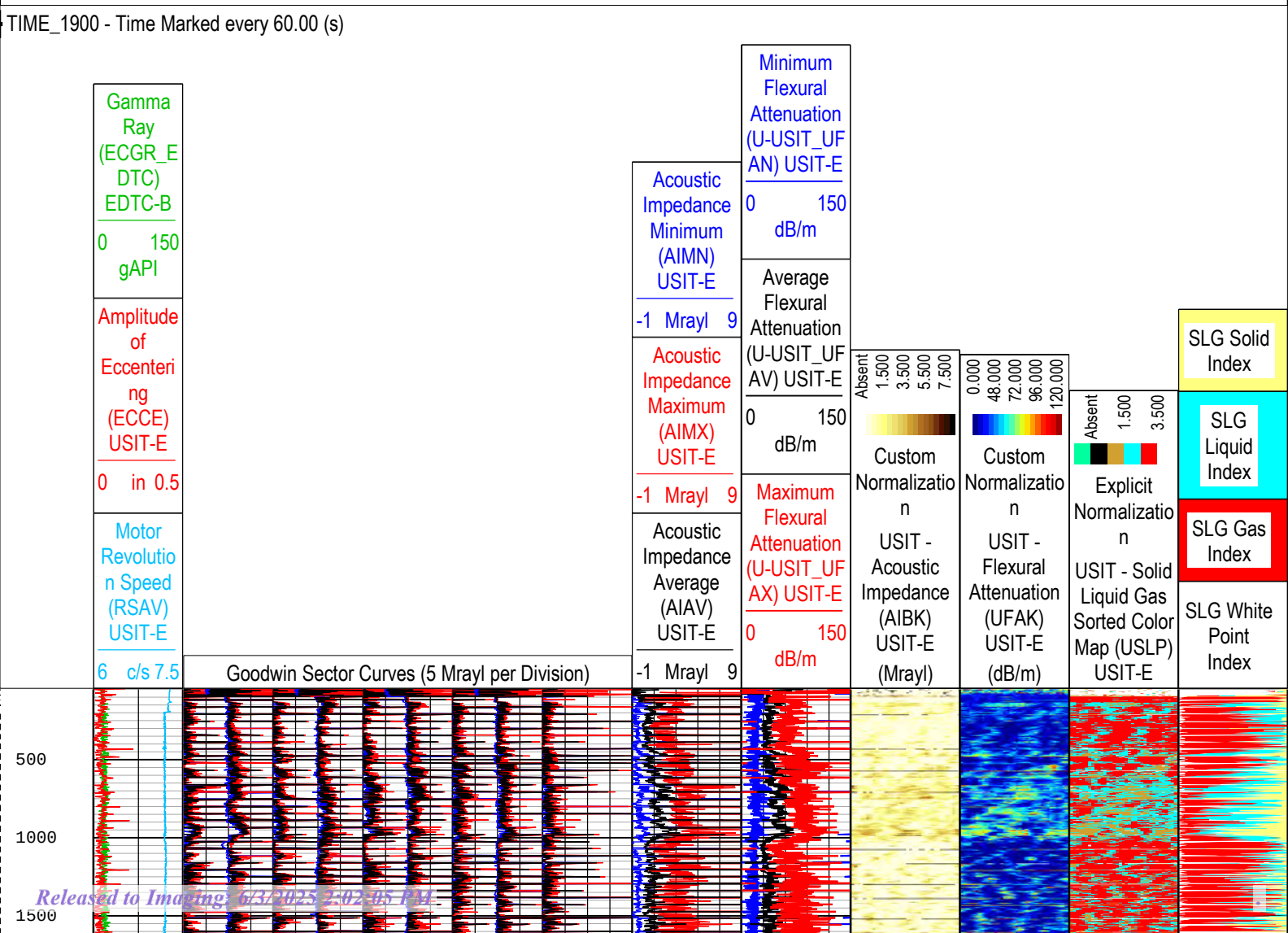
All depths are referenced to toolstring zero

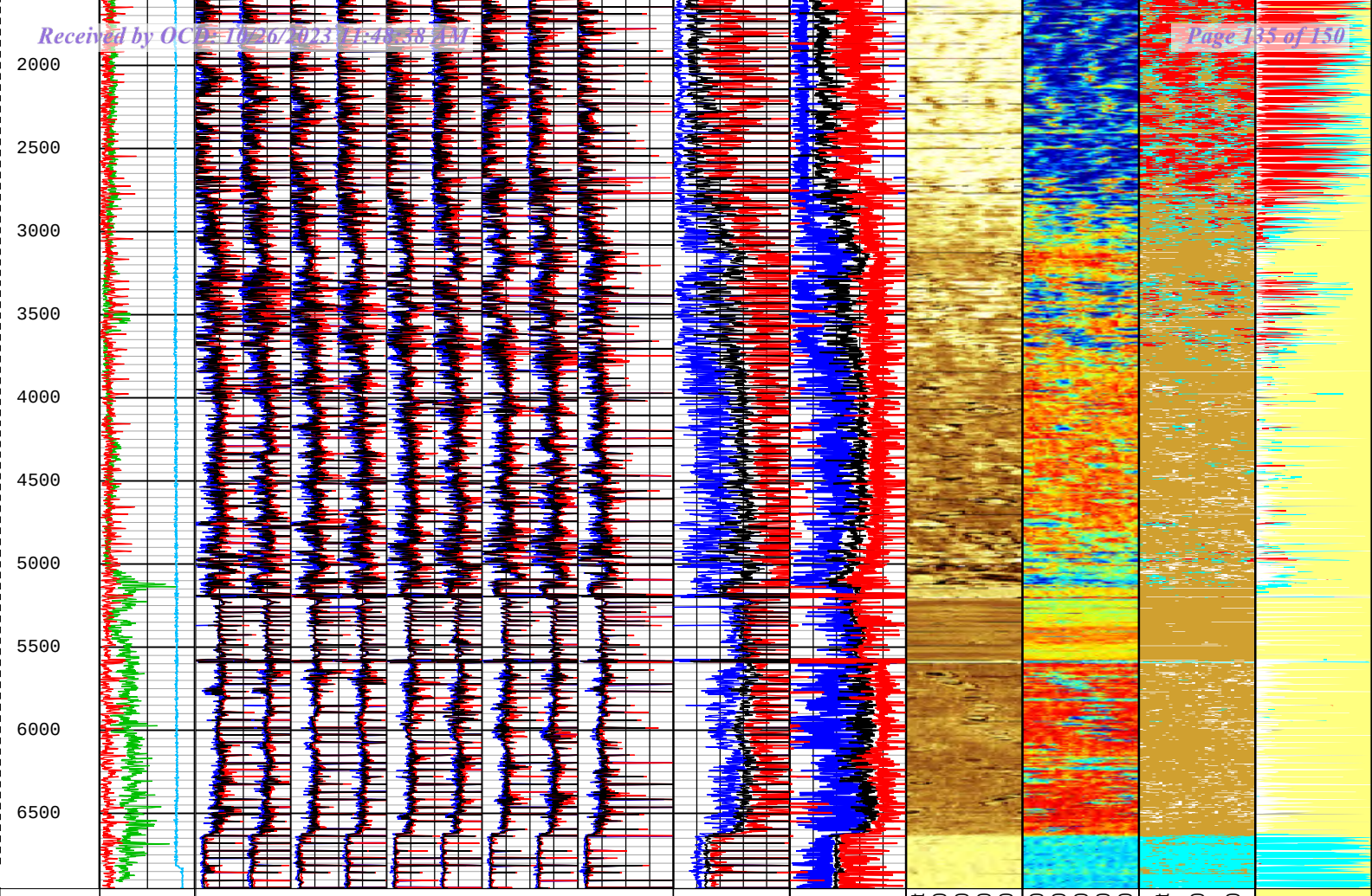
Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Main[5]:Up:S014

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:55:35





Gamma Ray (ECGR_EDTC) EDTC-B
0 150 gAPI

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Acoustic Impedance Minimum (AIMN) USIT-E
-1 Mrayl 9

Acoustic Impedance Maximum (AIMX) USIT-E
-1 Mrayl 9

Acoustic Impedance Average (AIAV) USIT-E
-1 Mrayl 9

Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E
0 150 dB/m

Average Flexural Attenuation (U-USIT_UFAV) USIT-E
0 150 dB/m

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E
0 150 dB/m

Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

SLG Solid Index

SLG Liquid Index

SLG Gas Index

SLG White Point Index

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:55:35

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARITESBAR	Barite Mud Presence Flag	Borehole	No	

BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	7050	ft
CDEN	Cement Density	USIT-E	10	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FD	Fluid Density	USIT-E	9.2	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-17.47	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.48	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.65	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-12	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.64	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	15	50	3163
BS	12.25	3163	5100
BS	8.75	5100	6953

All depth are actual.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
EMXV	EMEX Voltage	USIT-E	5	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
UPAT	USIT Emission Pattern	USIT-E	Pattern 300 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	38_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Repeat[3]:Up	Up	4940.27 ft	5414.22 ft	18-Oct-2023 9:45:43 PM	18-Oct-2023 9:53:54 PM	ON	-9.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Repeat[3]:Up:S014

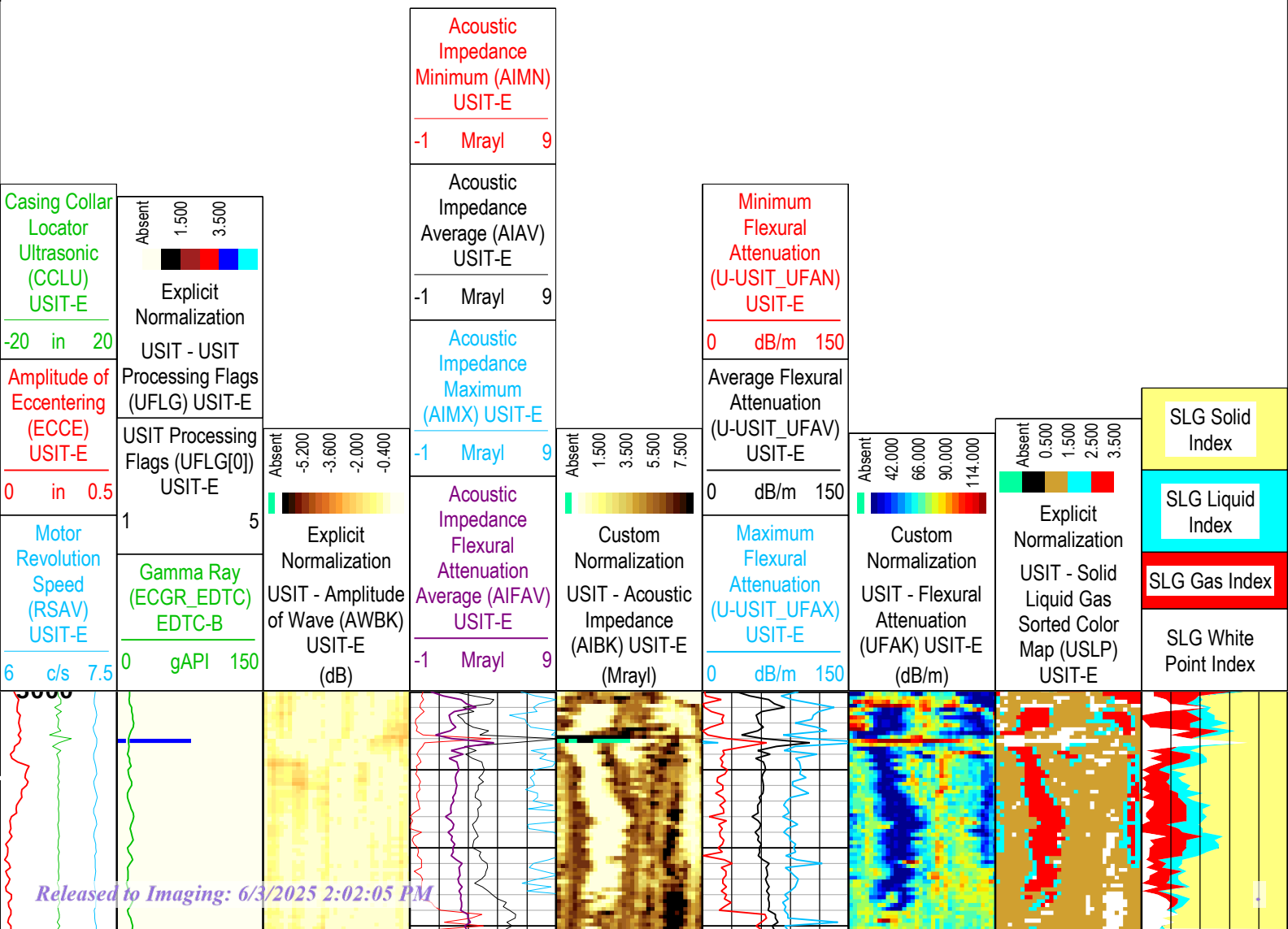
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Oct-2023 02:55:45

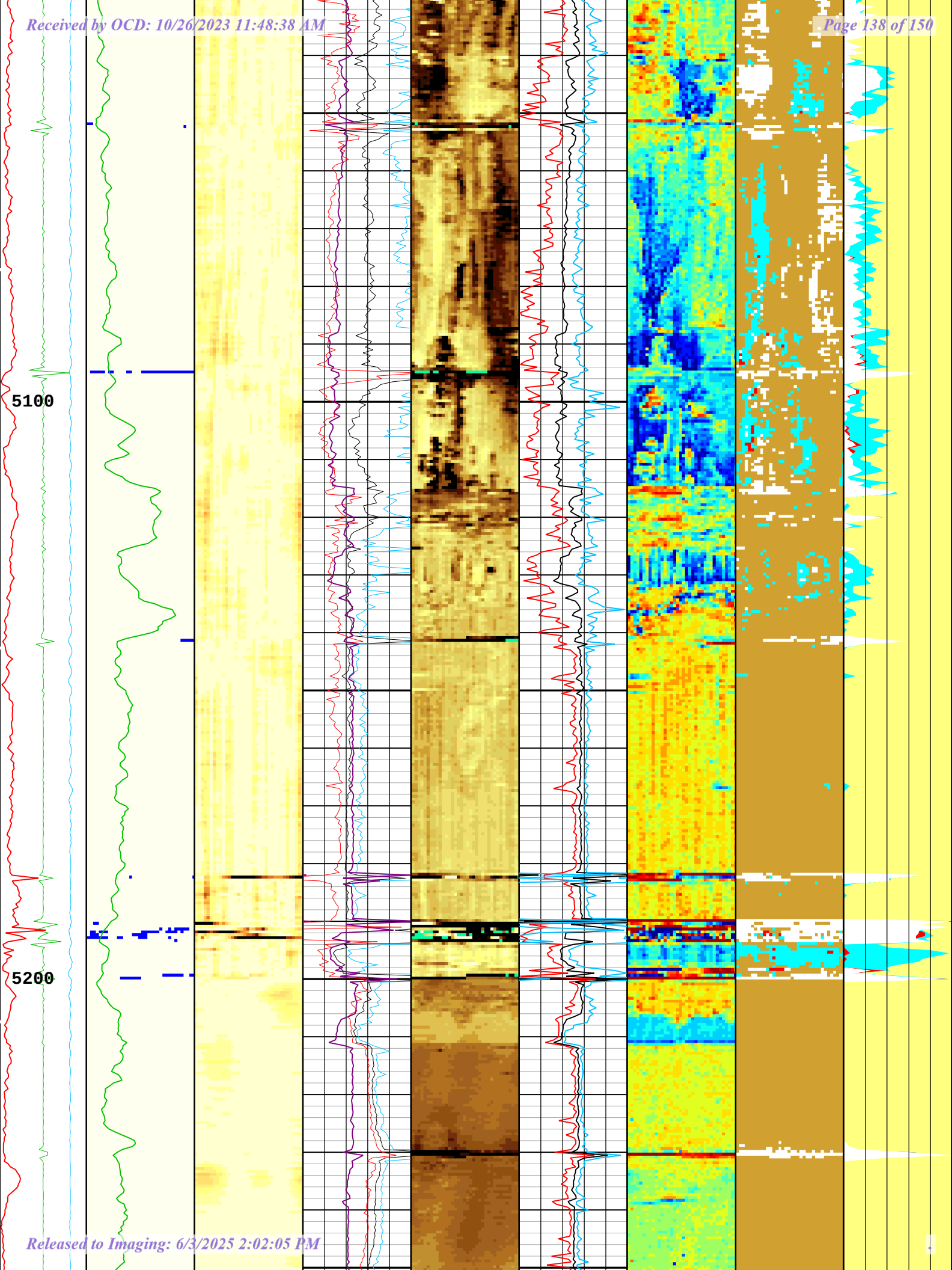
USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error
Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

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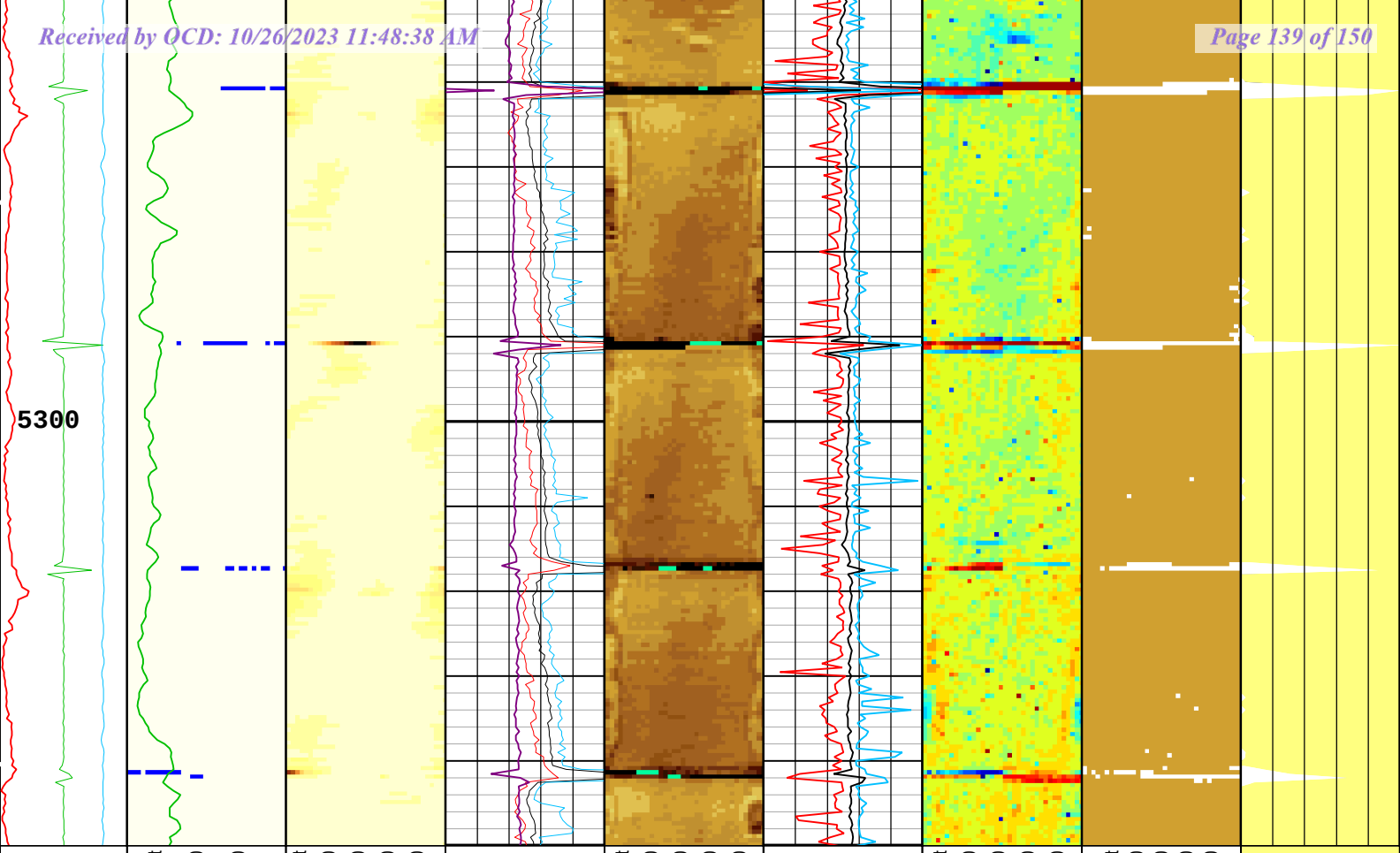
5200



Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Absent -5.200 -3.600 -2.000 -0.400
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E (dB)

Acoustic Impedance Minimum (AIMN) USIT-E
-1 Mrayl 9

Acoustic Impedance Average (AIAV) USIT-E
-1 Mrayl 9

Acoustic Impedance Maximum (AIMX) USIT-E
-1 Mrayl 9

Acoustic Impedance Flexural Attenuation Average (AIFAV) USIT-E
-1 Mrayl 9

Absent 1.500 3.500 5.500 7.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E
0 dB/m 150

Average Flexural Attenuation (U-USIT_UFAV) USIT-E
0 dB/m 150

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E
0 dB/m 150

Absent 42.000 66.000 90.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

Absent 0.500 1.500 2.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

SLG Solid Index
SLG Liquid Index
SLG Gas Index
SLG White Point Index

TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E
1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error
Pulse Origin Not Detected
WINLEN Error
Casing Thickness Error
Loop Processing Error

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BERJ	Bad Echo Rejection	USIT-E	On	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	7050	ft
CDEN	Cement Density	USIT-E	10	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FD	Fluid Density	USIT-E	9.2	lbm/gal
FDII	FPM Data Interpolation Interval	USIT-E	0	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_CTHI_SEL	IBC Casing Thickness Selector	USIT-E	THBK+THAV	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-17.47	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.48	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	
RCOD	Reference Calibrator Outer Diameter	USIT-E	7	in
RCSO	Reference Calibrator Standoff	USIT-E	1.181	in
RCTH	Reference Calibrator Thickness	USIT-E	0.295	in
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
THDH	Maximum Search Thickness (percentage of nominal)	USIT-E	130	%
THDL	Minimum Search Thickness (percentage of nominal)	USIT-E	70	%
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.65	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-12	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
THDP	Thickness Detection Policy	USIT-E	Fundamental	
VCAS	Ultrasonic Transversal Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.64	Mrayl

ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	5000	5100
BS	8.75	5100	5350

All depth are actual.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	2.874	in
EMXV	EMEX Voltage	USIT-E	5	V
HRES	Horizontal Resolution	USIT-E	10 deg	
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
UACLV_PERM	Ultrasonic ACLV Permanent	USIT-E	Yes	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 300 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
USSP	Ultrasonic Service	USIT-E	IBC	
U-USIT_UTAN	Transducer Angles	USIT-E	38_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	

1A

Repeat Pass 2" = 100'

Software Version

Acquisition System	Version
Maxwell 2023.0	13.0.221437.3100
Application Patch	Wireline_Hotfix-Mandatory-2023.0_13.0.224590

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Repeat[3]:Up	Up	4940.27 ft	5414.22 ft	18-Oct-2023 9:45:43 PM	18-Oct-2023 9:53:54 PM	ON	-9.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003

1A: Repeat[3]:Up:S014

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite 7.0IN) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Oct-2023 02:55:53

TIME_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :

2 - UFLG 2 Value within [1.5 - 2.5] - :

UTIM Error

Pulse Origin Not Detected

3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

WINLEN Error
Casing Thickness Error
Loop Processing Error

Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Absent -5.200 -3.600 -2.000 -0.400
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E
(dB)

External Radii Average (ERAV) USIT-E
3.7 in 2.7

Internal Radius Averaged Value (IRAV) USIT-E
3.7 in 2.7

Internal Radius Maximum Value (IRMX) USIT-E
3.7 in 2.7

Internal Radius Minimum Value (IRMN) USIT-E
3.7 in 2.7

External Radii Average (ERAV) USIT-E
2.7 in 3.7

Internal Radius Averaged Value (IRAV) USIT-E
2.7 in 3.7

Internal Radius Maximum Value (IRMX) USIT-E
2.7 in 3.7

Internal Radius Minimum Value (IRMN) USIT-E
2.7 in 3.7

Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Internal Radii Normalized (IRBK) USIT-E
(in)

Thickness Minimum Value (THMN) USIT-E
0.1 in 0.6

Thickness Average Value (THAV) USIT-E
0.1 in 0.6

Thickness Maximum Value (THMX) USIT-E
0.1 in 0.6

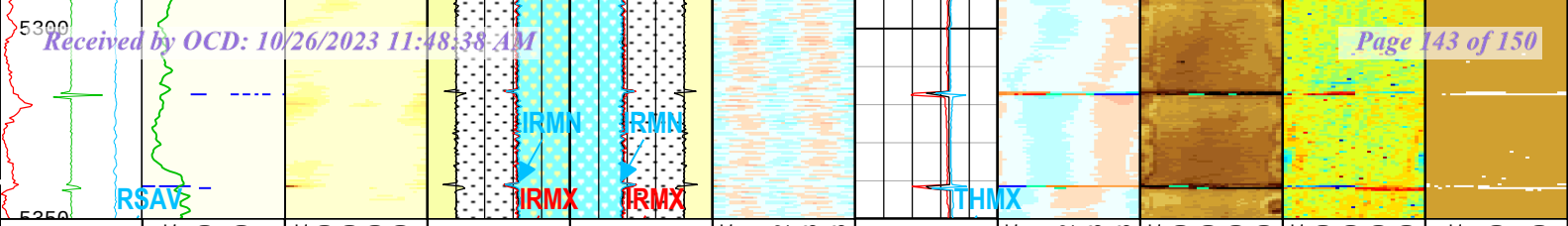
Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Casing Thickness Normalized (THBK) USIT-E
(in)

Absent 1.500 3.500 5.500 7.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E
(Mrayl)

Absent 42.000 66.000 90.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E
(dB/m)

Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

5050
5100
5150
5200
5250



Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

Amplitude of Eccentering (ECCE) USIT-E
0 in 0.5

Motor Revolution Speed (RSAV) USIT-E
6 c/s 7.5

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR_EDTC) EDTC-B
0 gAPI 150

Absent -5.200 -3.600 -2.000 -0.400
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E (dB)

External Radii Average (ERAV) USIT-E
3.7 in 2.7

Internal Radius Averaged Value (IRAV) USIT-E
3.7 in 2.7

Internal Radius Maximum Value (IRMX) USIT-E
3.7 in 2.7

Internal Radius Minimum Value (IRMN) USIT-E
3.7 in 2.7

External Radii Average (ERAV) USIT-E
2.7 in 3.7

Internal Radius Averaged Value (IRAV) USIT-E
2.7 in 3.7

Internal Radius Maximum Value (IRMX) USIT-E
2.7 in 3.7

Internal Radius Minimum Value (IRMN) USIT-E
2.7 in 3.7

Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Internal Radii Normalized (IRBK) USIT-E (in)

Thickness Minimum Value (THMN) USIT-E
0.1 in 0.6

Thickness Average Value (THAV) USIT-E
0.1 in 0.6

Thickness Maximum Value (THMX) USIT-E
0.1 in 0.6

Absent -0.051 -0.012 0.028 0.068
Explicit Normalization
USIT - Casing Thickness Normalized (THBK) USIT-E (in)

Absent 1.500 3.500 5.500 7.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

Absent 42.000 66.000 90.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E

1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

- UTIM Error
- Pulse Origin Not Detected
- WINLEN Error
- Casing Thickness Error
- Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Composite Format: Log (IBC SLG Composite 7.0IN) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Oct-2023 02:55:53

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in
CBLO	Casing Bottom (Logger)	WLSESSION	7050	ft
CDEN	Cement Density	USIT-E	10	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	203	us/ft
FD	Fluid Density	USIT-E	9.2	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	

GCSP_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	BS(RT)	
HEMA	Hematite Presence Flag	Borehole	No	
IBC_FRP_OFFSET	IBC Flexural Offset from Free Pipe	USIT-E	-17.47	dB/m
IBC_FVEL_SEL	IBC Fluid Velocity Selection	USIT-E	Automatic	
IBC_OFFSET_SEL	IBC Flexural Offset Selector	USIT-E	UFAO	
IBC_ZMUD_SEL	IBC Mud Impedance Selection	USIT-E	Theoretical	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.48	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.09	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.1	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.65	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-12	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.64	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.2	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	5000	5100
BS	8.75	5100	5350

All depth are actual.

Tool Control Parameters

1A: Parameters

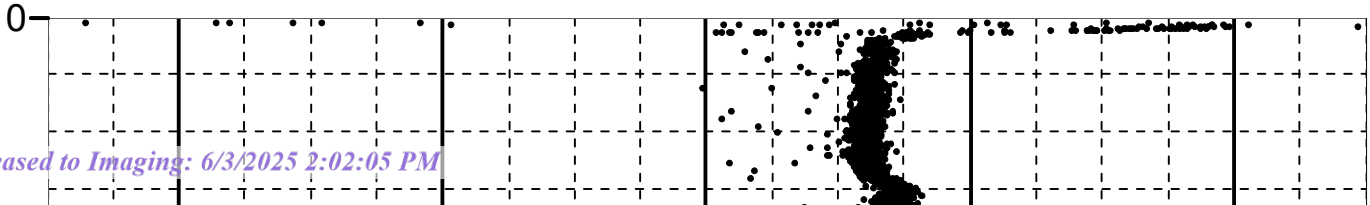
Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
EMXV	EMEX Voltage	USIT-E	5	V
IBC_ACQTYPE	IBC Acquisition type	USIT-E	1 MHz	
IBC_FLEXDBP	IBC Flex Duration Before Peak	USIT-E	30	us
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
UPAT	USIT Emission Pattern	USIT-E	Pattern 300 KHz	
UWKM	USIT Working Mode	USIT-E	10 deg at 6.0 in	
U-USIT_UTAN	Transducer Angles	USIT-E	38_DEG	
VRES	Vertical Resolution	USIT-E	6.0 in	

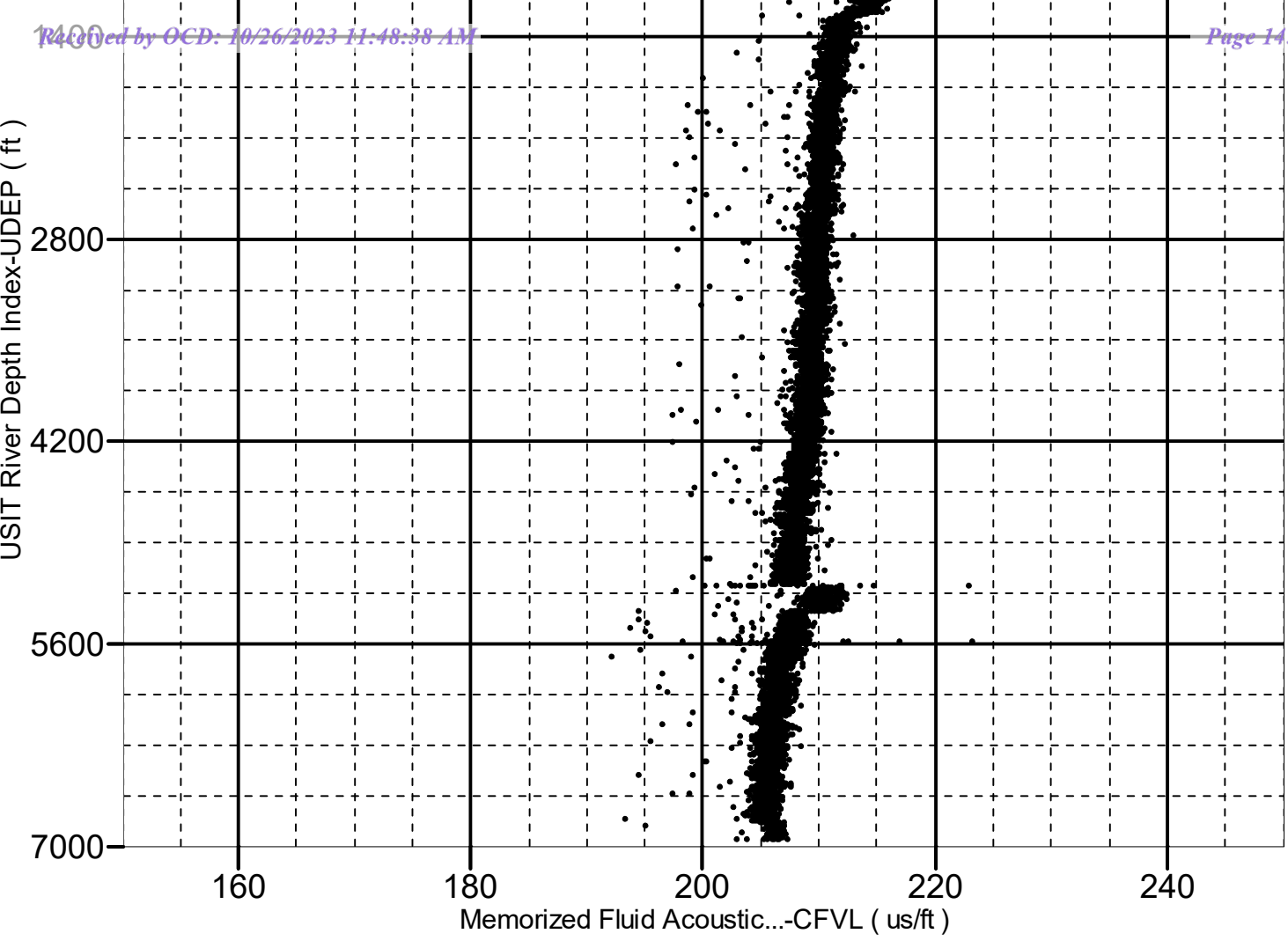
Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 6953.00 to 25.00 ft

- CFVL-UDEP





XYZ

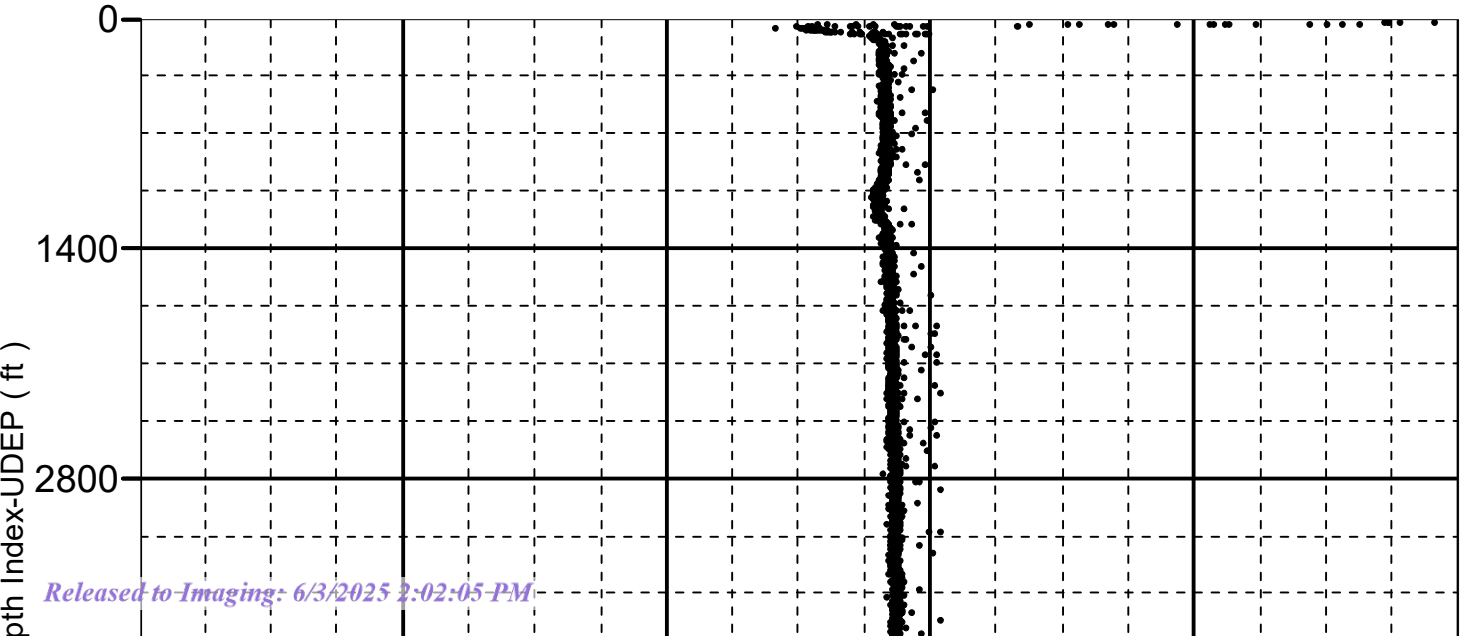
Company:PERMIAN OILFIELD PARTNERS, LLC Well:SALT CREEK AGI 003
1A: Main[5]:Up:S014

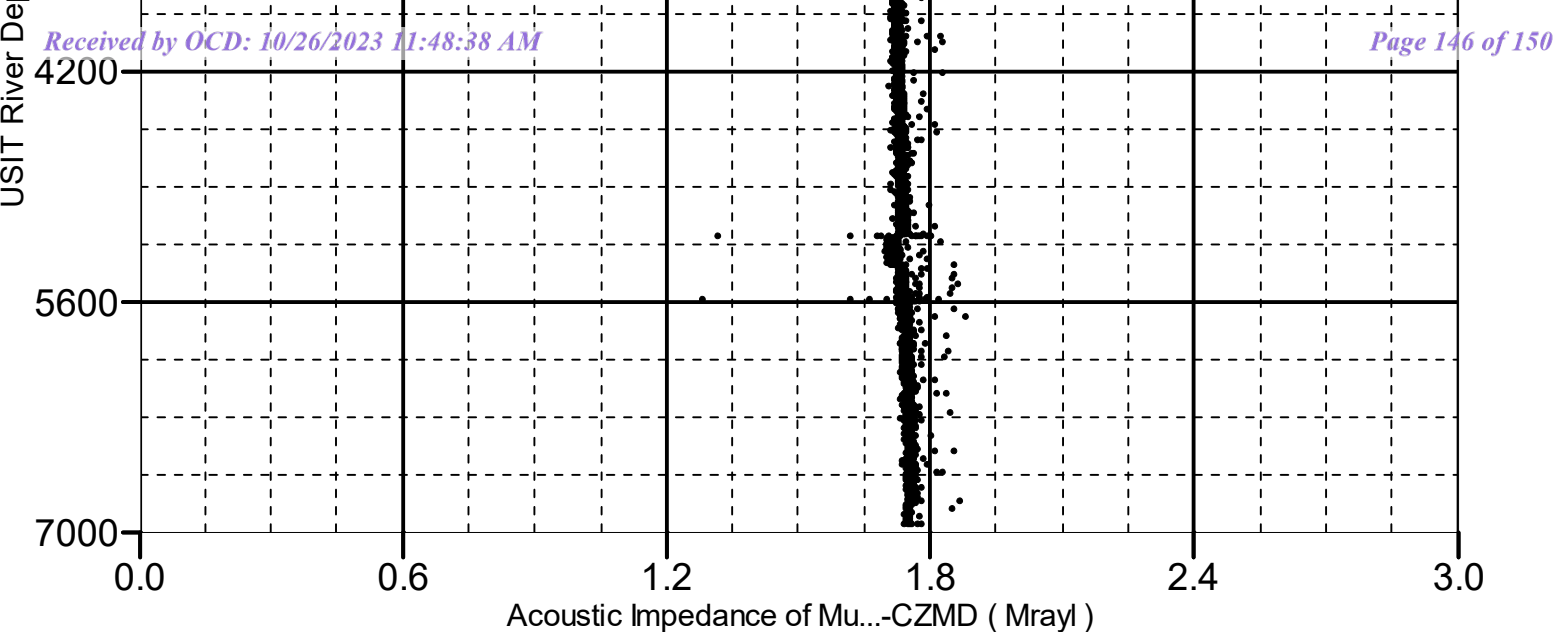
Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 6953.00 to 25.00 ft

● CZMD-UDEP





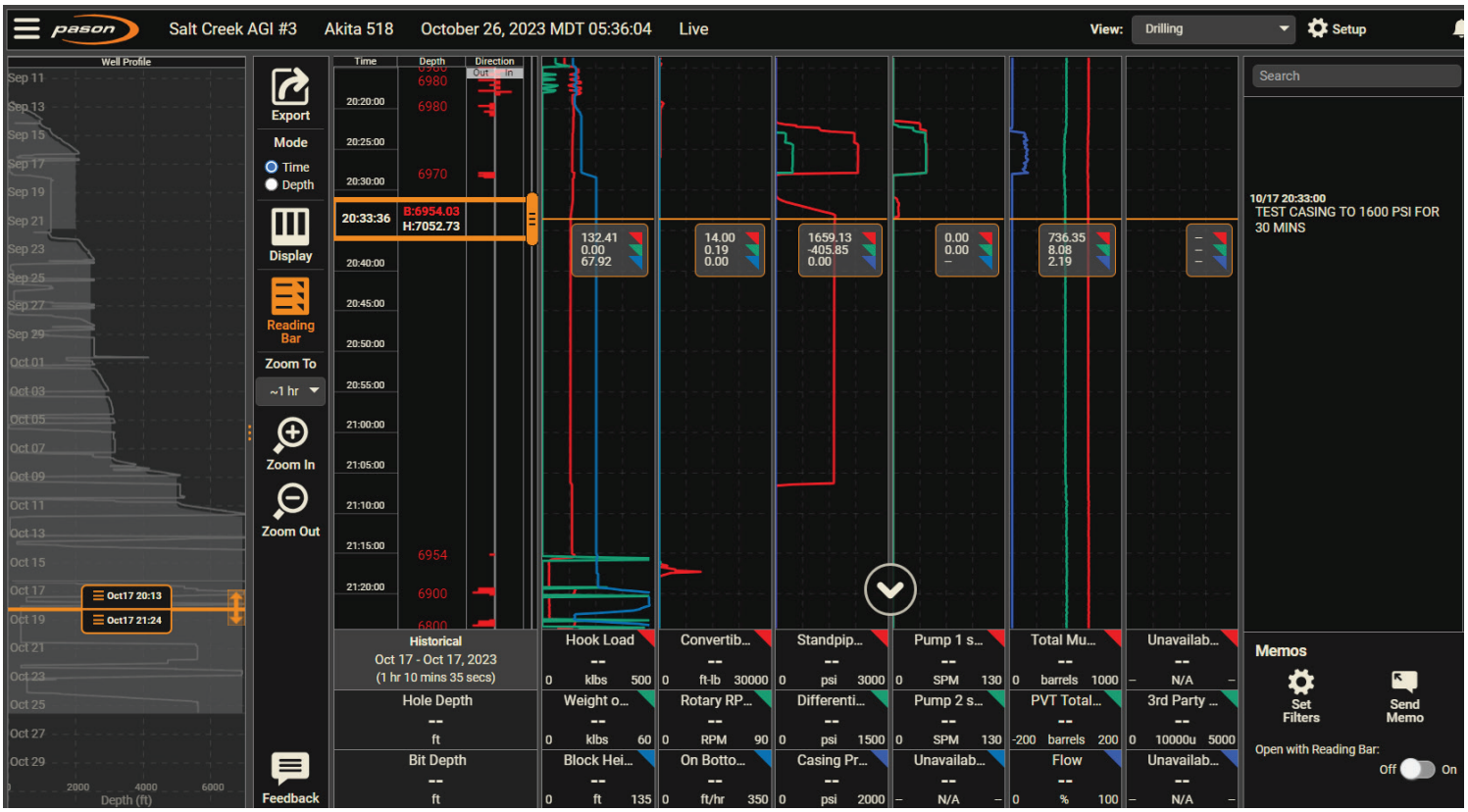
Company:	PERMIAN OILFIELD PARTNERS, LLC
Well:	SALT CREEK AGI 003
Field:	AGI DELAWARE
County:	LEA
State:	NEW MEXICO

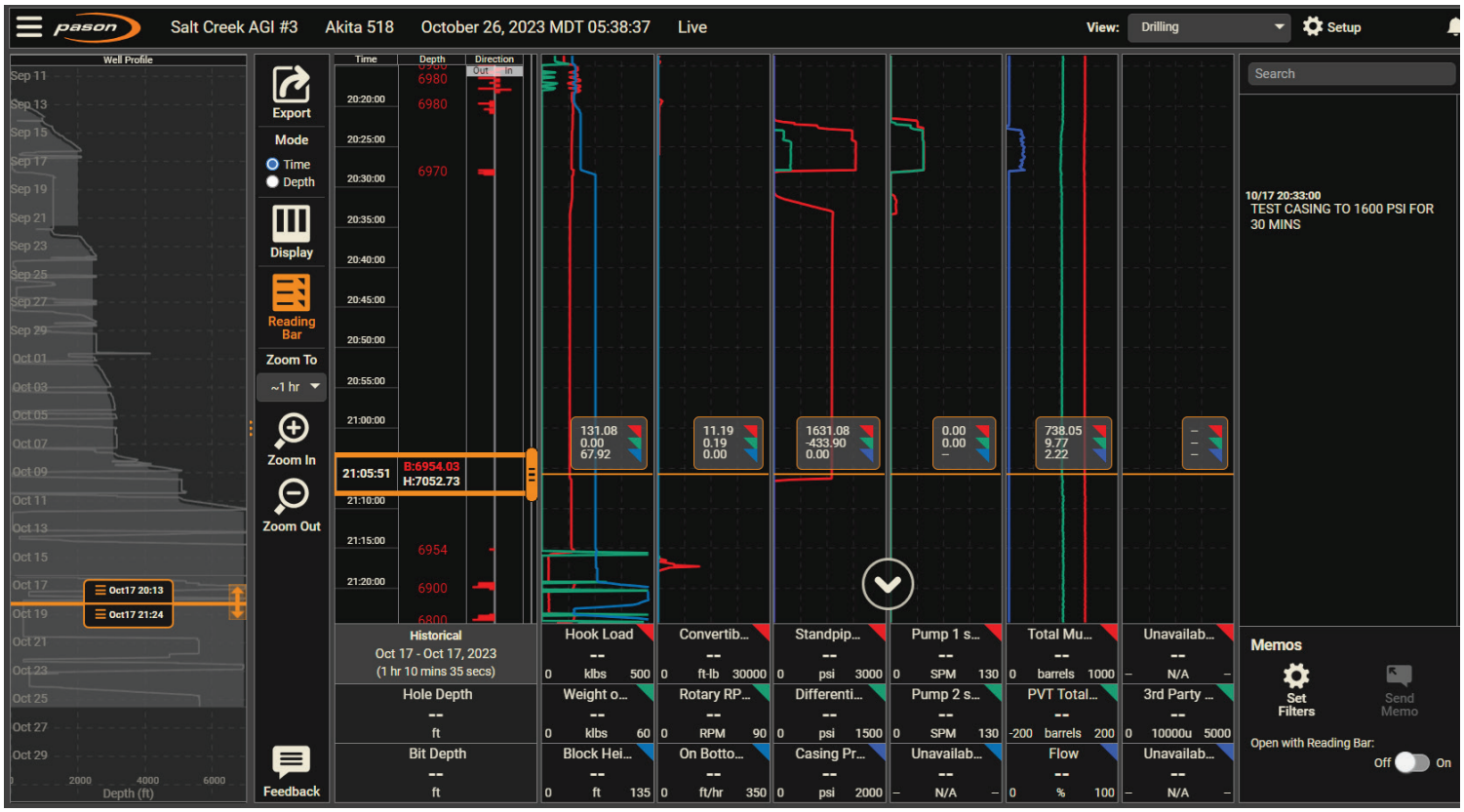
Isolation Scanner

Cement Evaluation

CASING PRESSURE TEST
(7" Casing Interval)

SALT CREEK AGI #3
7" CASING PRESSURE TEST





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https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 279686

CONDITIONS

Operator: Northwind Midstream Partners LLC 811 Louisiana St Houston, TX 77002	OGRID: 331501
	Action Number: 279686
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	6/3/2025