

Company: New Mexico Institute of Mining & Technology

Well: SJB Carbon Safe Strat Test #001

Field: Entrada Formation

County: San Juan State: New Mexico

County: San Juan
Field: Entrada Formation
Location: Section: 14, Township: 31N, Range: 12W
Well: SJB Carbon Safe Strat Test #001
Company: New Mexico Institute of Mining & Technology

Isolation Scanner
Cement Evaluation
Gamma Ray - CCL Log

Location:	Section: 14, Township: 31N, Range: 12W 2236' FNL & 1021' FEL	Elev.: K.B. 6223.00 ft G.L. 6207.00 ft D.F.
	Permanent Datum: Log Measured From: Drilling Measured From:	Ground Level Kelly Bushing Kelly Bushing 16.00 ft above Perm. Datum
API Serial No.	Section:	Township:
30-045-38272	14	31N
		Range: 12W

Logging Date 12-Feb-2023

Run Number 6A

Depth Driller 8800.00 ft

Schlumberger Depth 8800.00 ft

Bottom Log Interval 8750.00 ft

Top Log Interval

Casing Fluid Type Water

Specific Gravity

Density 8.7 lbm/gal

Fluid Level 8.00 ft

Bit Size 8.75 in

Bit Size 5500.00 ft

Bit Size 8800.00 ft

Casing/Tubing Size 5.5 in

Weight 23 lbm/ft

Grade N/A

Fluid 5000.00 ft

Tool 8800.00 ft

Recorded Temperatures 214 degF

Measurement on Bottom 12-Feb-2023 20:44:00

Up Number 9103

Location: Midland

Recorded By Ryan Kennedy

Witnessed By Santiago Flores

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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11. 6A

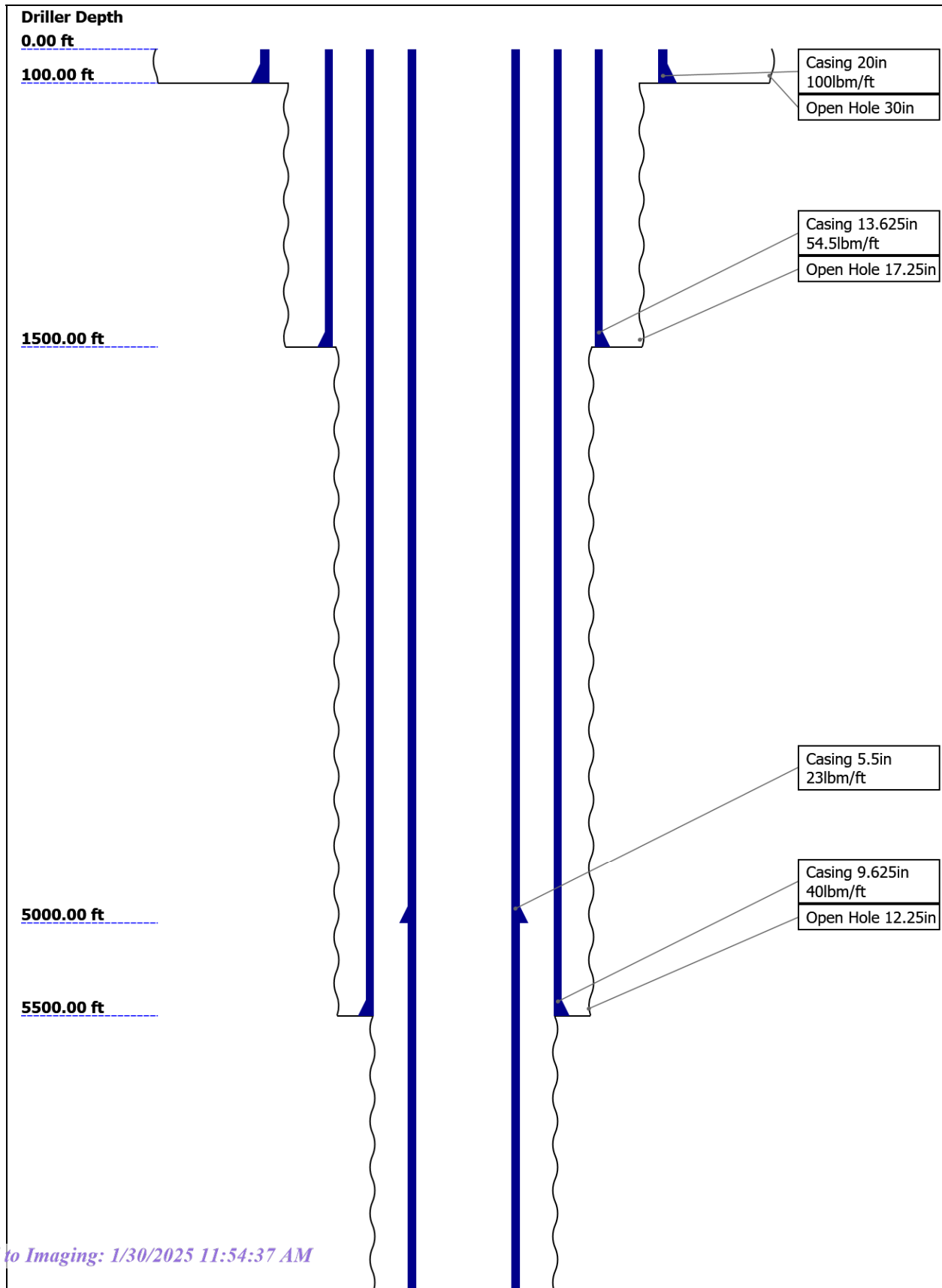
11.1 Integration Summary

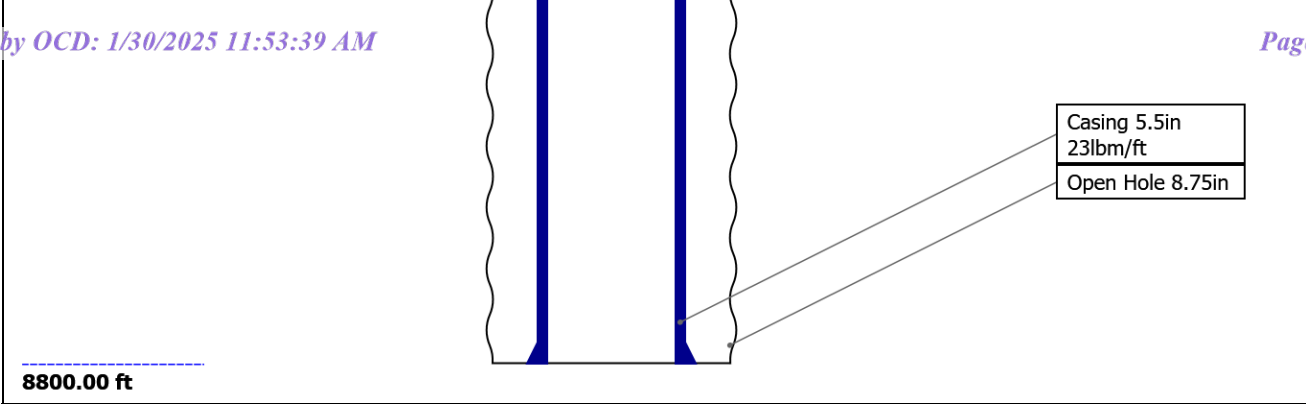
11.2 Software Version

11.3 Composite Summary

11.4 Log (IBC Goodwin)

Well Sketch



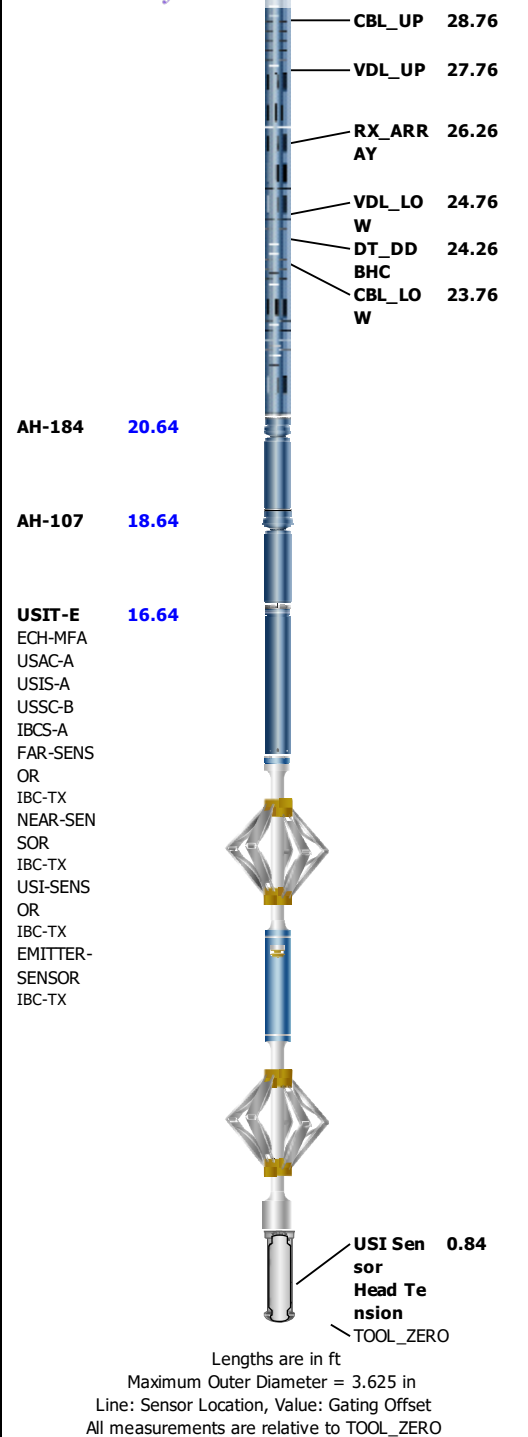


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	30	17.25	12.25	8.75		
Top Driller (ft)	0	100	1500	5500		
Top Logger (ft)	0	100	1500	5500		
Bottom Driller (ft)	100	1500	5500	8800		
Bottom Logger (ft)	100	1500	5500	8800		
Casing						
Size (in)	20	13.625	9.625	5.5	5.5	
Weight (lbm/ft)	100	54.5	40	23	23	
Inner Diameter (in)	19.063	12.872	8.835	4.67	4.67	
Grade	N/A	J55	L80	L80	N/A	
Top Driller (ft)	0	0	0	0	5000	
Top Logger (ft)	0	0	0	0	5000	
Bottom Driller (ft)	100	1500	5500	5000	8800	
Bottom Logger (ft)	100	1500	5500	5000	8800	

Remarks and Equipment Summary

6A: Toolstring				6A: Remarks	
Equip nameLengthMP nameOffset LEH-QT47.28 LEH-QT EDTC-B43.79 EDTH-B EDTG-A EDTC-B AH-32037.29 ASLT-B:835.29 074 ASLT-BB:8 074 CTEM40.29 ACCZ0.00 HV0.00 Gamma38.42 Ray TelStatu37.29 s				Log Objective: Cement and Casing Evaluation	
				Main Pass logged @1000psi & Repeats @0psi.	
				Main logged @ 10deg 6" and Repeats @ 10deg 1.5"	
				Expected Free pipe amplitude 71 +/- 7mV.	



Depth Summary

6A

Depth Measuring Device

Type	IDW-JA
Serial Number	7293
Calibration Date	27-Oct-2022
Calibrator Serial Number	57
Calibration Cable Type	7-32AS-XS
Wheel Correction 1	-1
Wheel Correction 2	1

Tension Device

Type	CM-13-37A
Serial Number	2525

Serial Number	2565		
Calibration Date	05-Nov-2022		Page 5 of 84
Calibrator Serial Number	75		
Number of Calibration Points	10		
Calibration Root Mean Square Error	17		
Calibration Peak Error	31		

Logging Cable			
Type	7-32AS-XS		
Serial Number	0060084688		
Length	28500.00 ft		
Conveyance Type	Wireline		
Rig Type			

6A:Depth Control Parameters		Depth Control Remarks
Log Sequence	Subsequent Trip To the Well	Schlumberger depth control procedures followed
Reference Log Name	Isolation Scanner	IDW used as primary depth control system
Reference Log Run Number	3A	Z-Chart used as secondary depth control system
Reference Log Date	25-Dec-2022	Log Correlated to SLB Isolation Scanner Log, 25-Dec-2022
Subsequent Trip Down Log Correction		

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 2	Main[5]:Up	8742.51	60.76

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

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

Mud Impedance = "Manual".
CZMD uses ZMUD parameter zoned table below

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
0		1.5	1.5

6A

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2022.1	12.1.217729.3100
Application Patch	Wireline_NPD-PLUGEM-2022.1_12.1.219531
	Wireline_NPD-HFND-2022.1_12.1.219128
	Wireline_Hotfix-Mandatory-2022.1_12.1.220287

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
6A	Main[5]:Up	Up	60.76 ft	8742.51 ft	12-Feb-2023 2:00:09 PM	12-Feb-2023 4:17:10 PM	ON	9.64 ft	Yes

All depths are referenced to toolstring zero

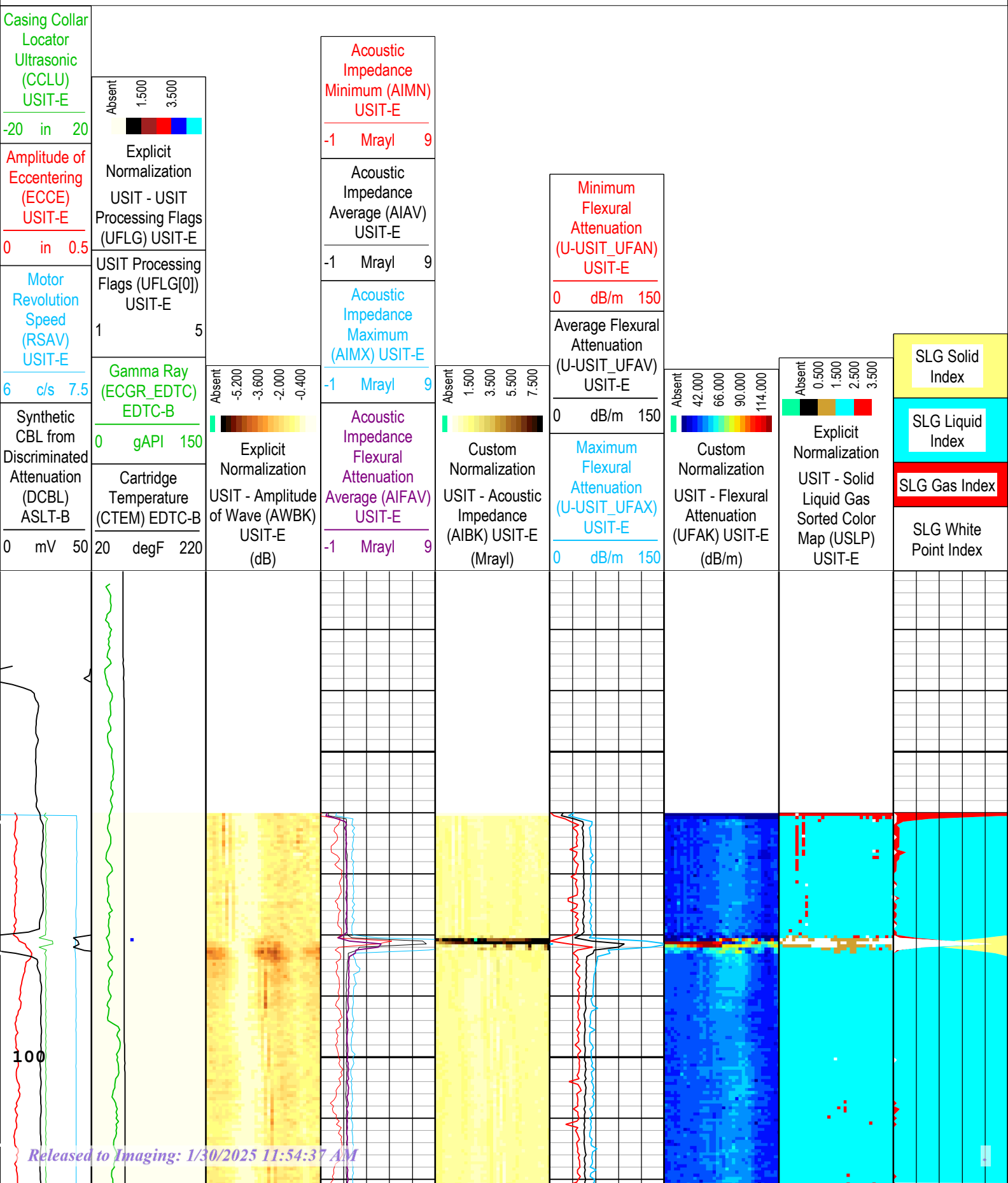
Log	Company:New Mexico Institute of Mining & Technology	Well:SJB Carbon Safe Strat Test #001
		6A: Main[5]:Up:S021

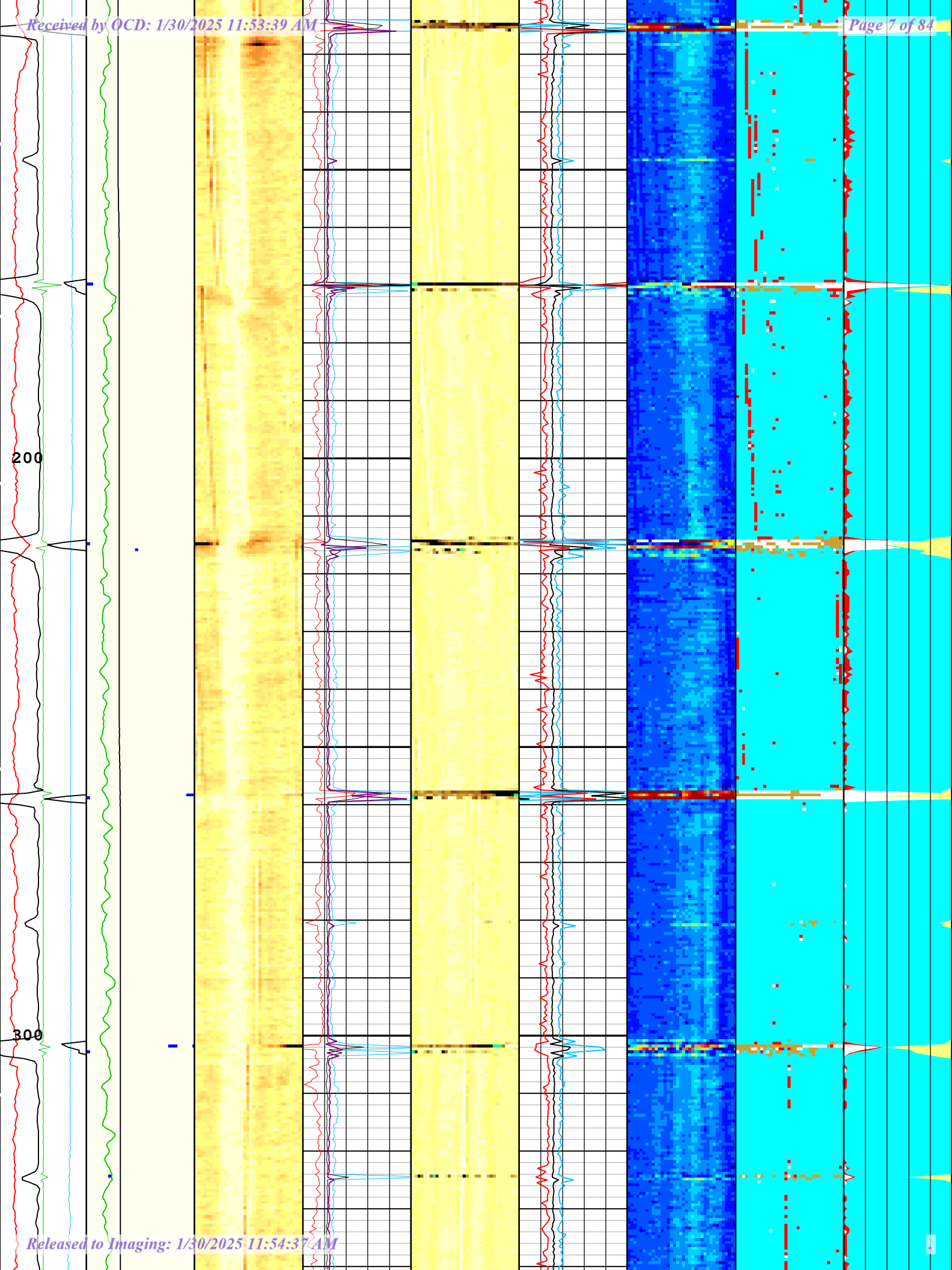
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 13-Feb-2023 01:12:27

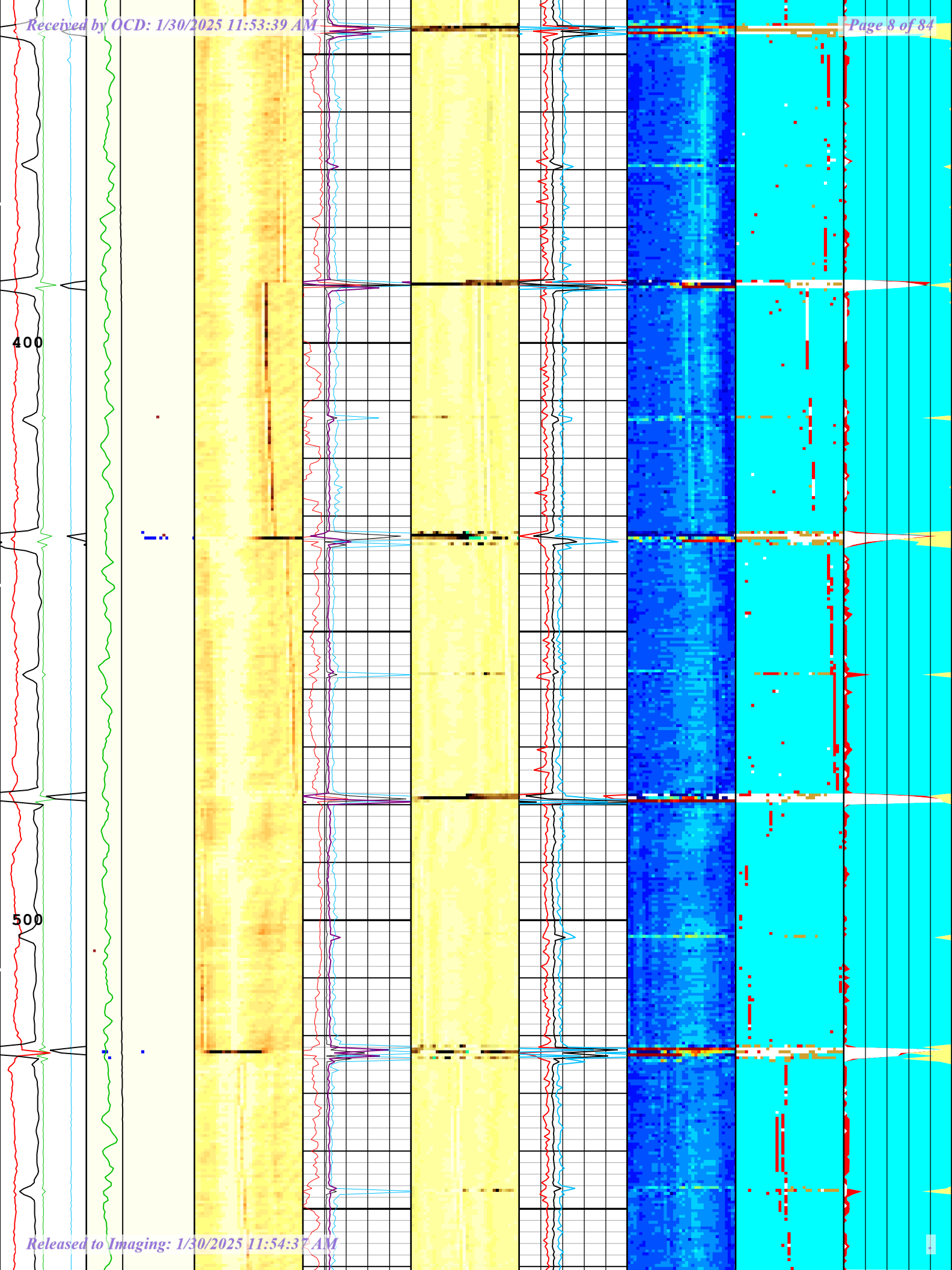
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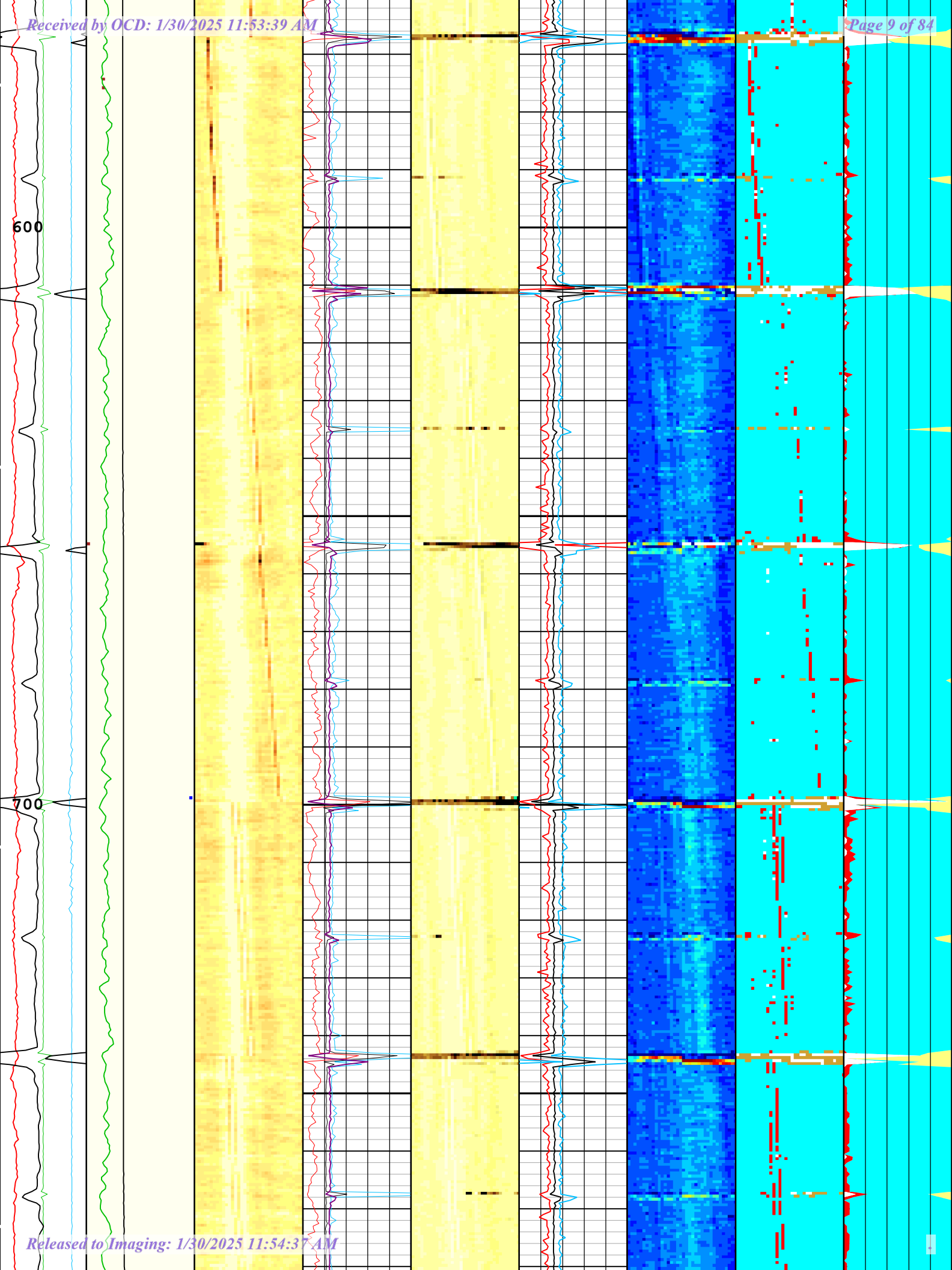
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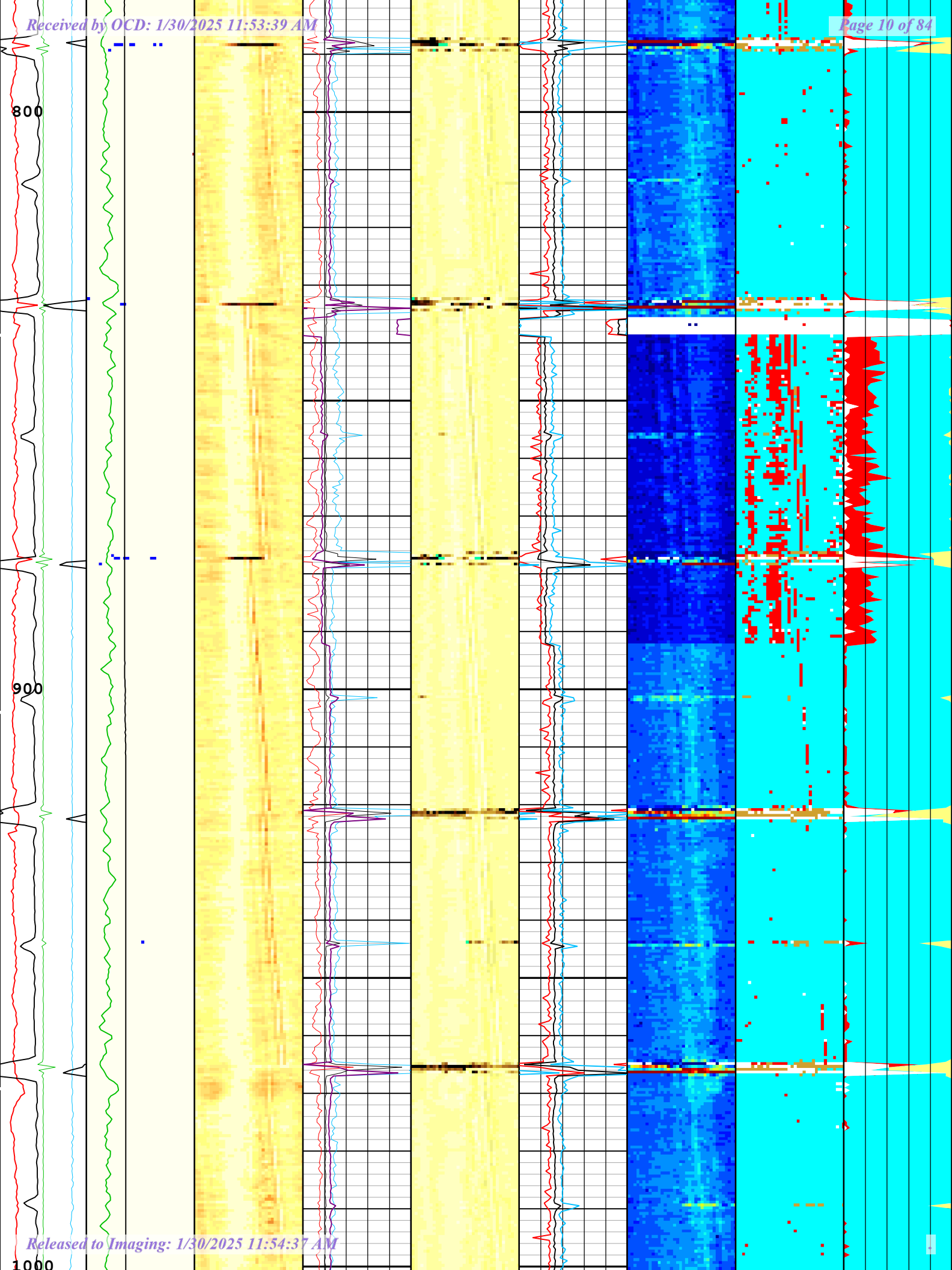
- 1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :
■ UTIM Error
■ Pulse Origin Not Detected
■ WINLEN Error
■ Casing Thickness Error
■ Loop Processing Error

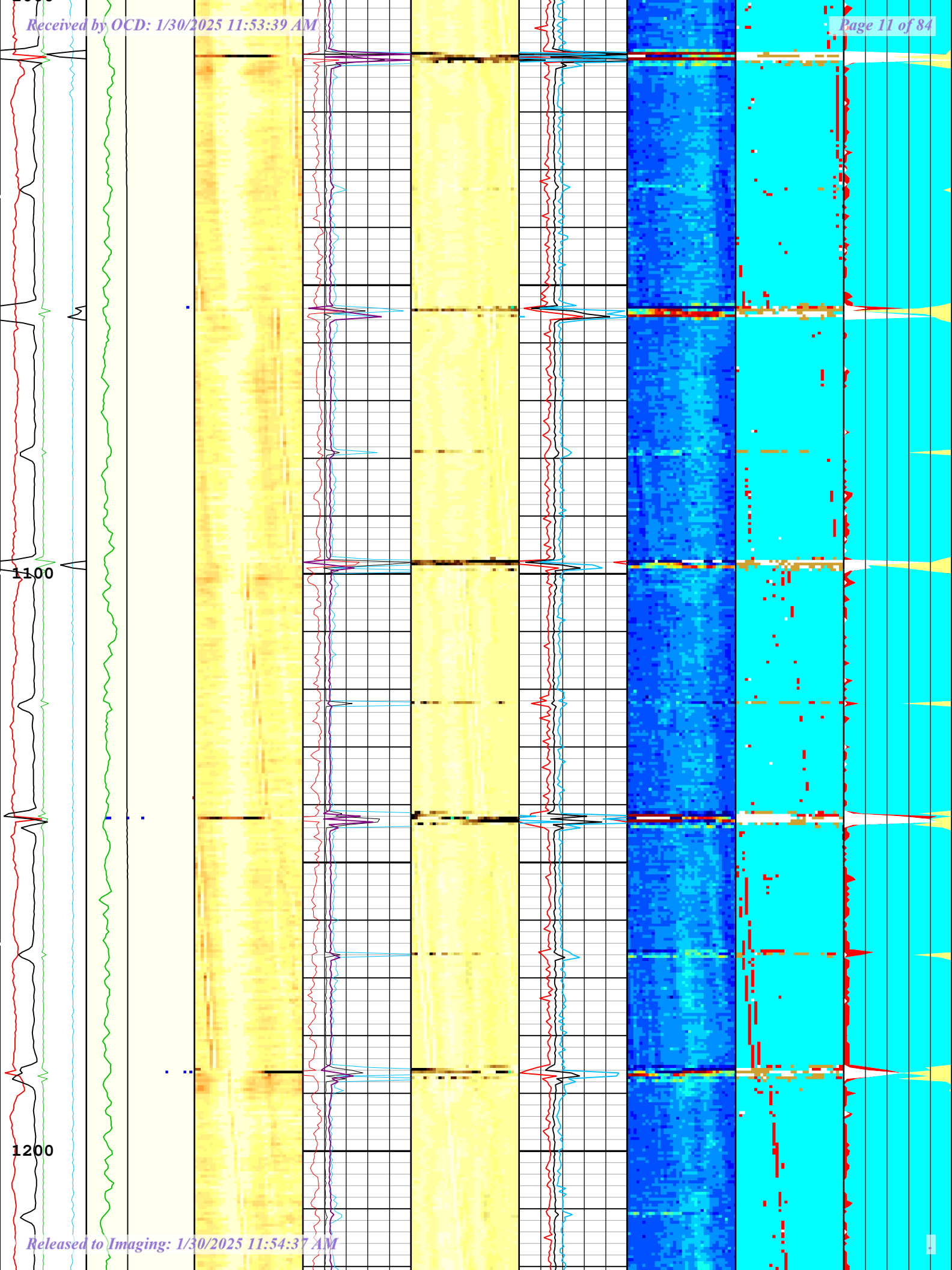


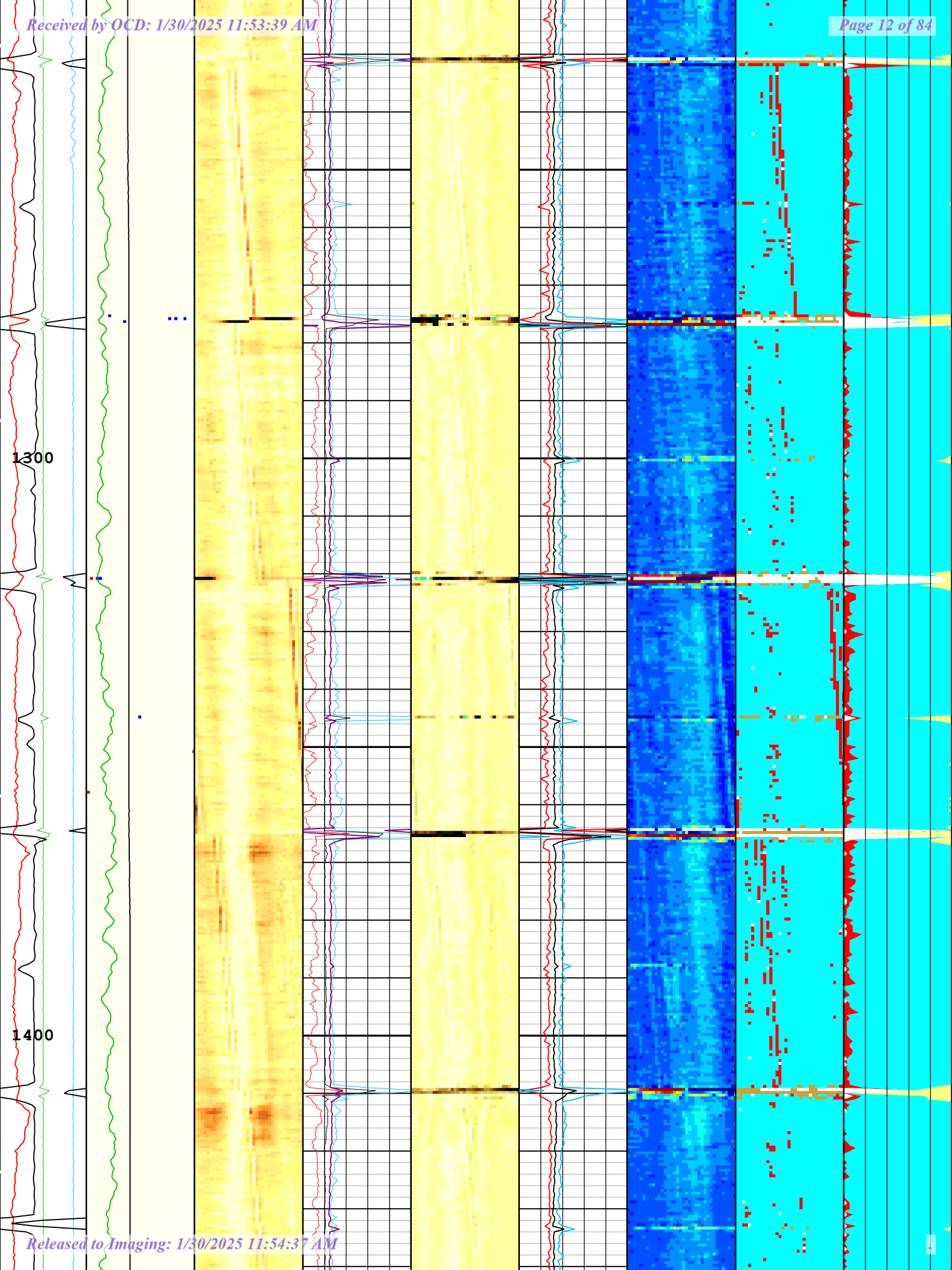


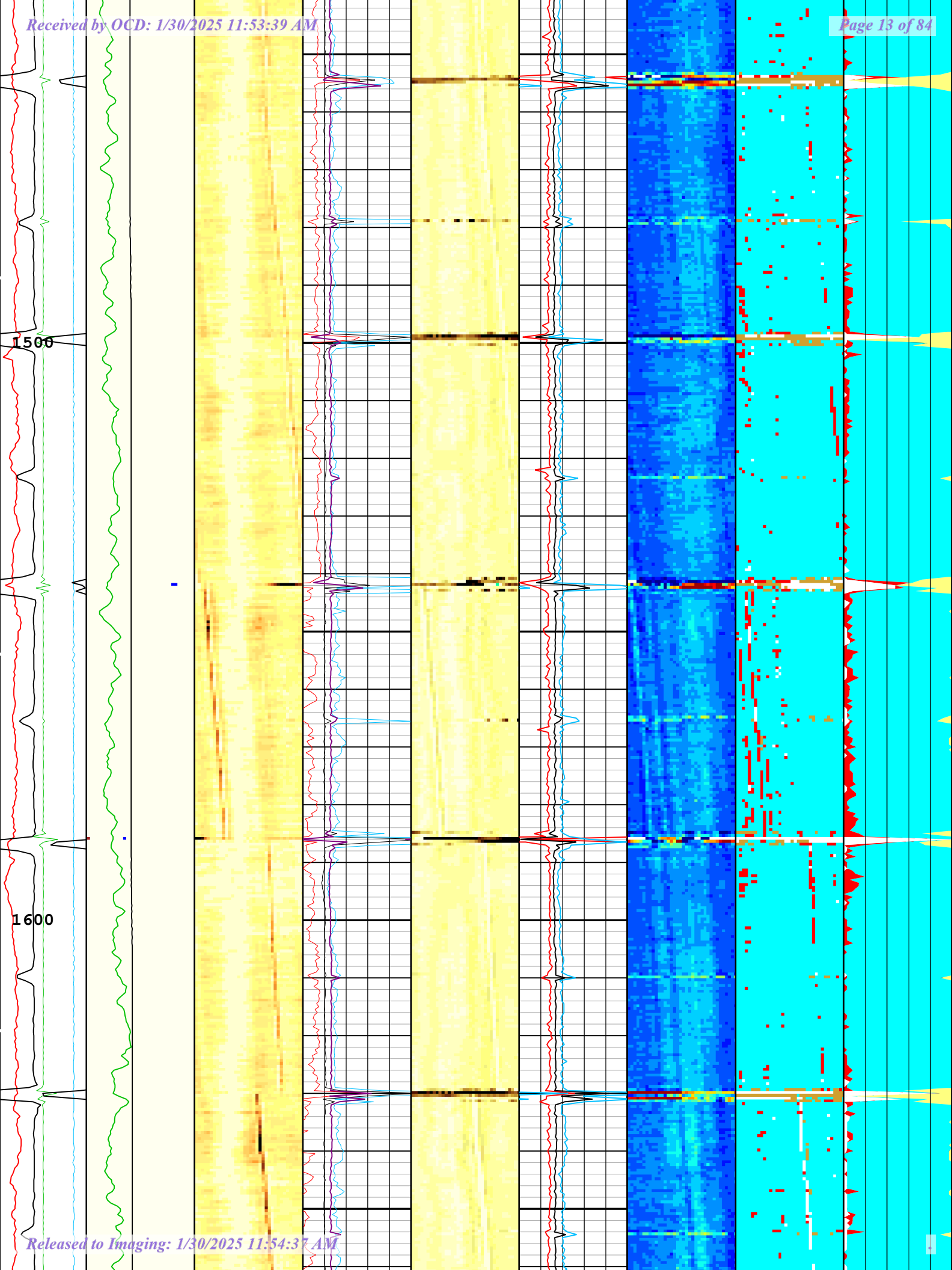


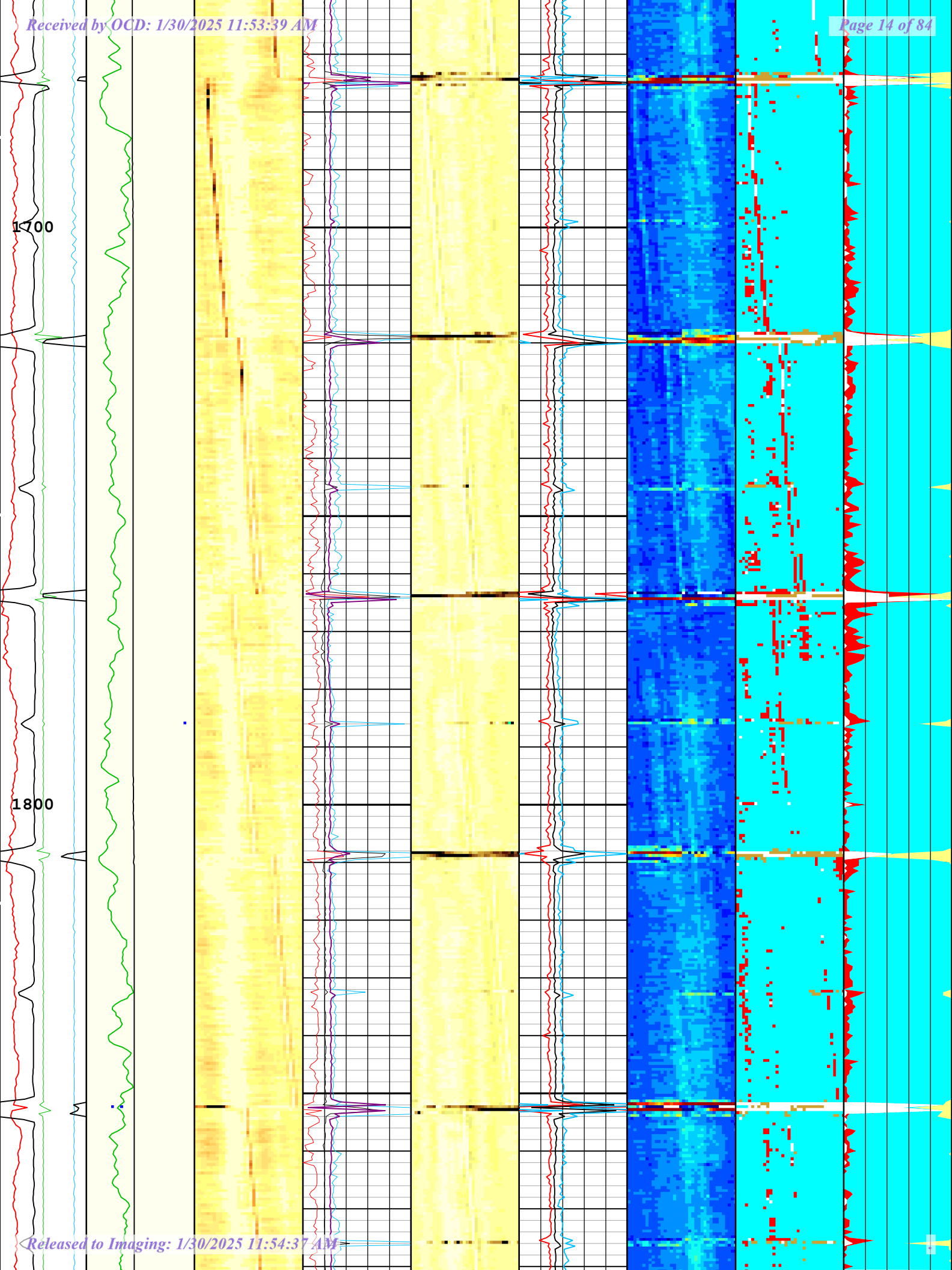


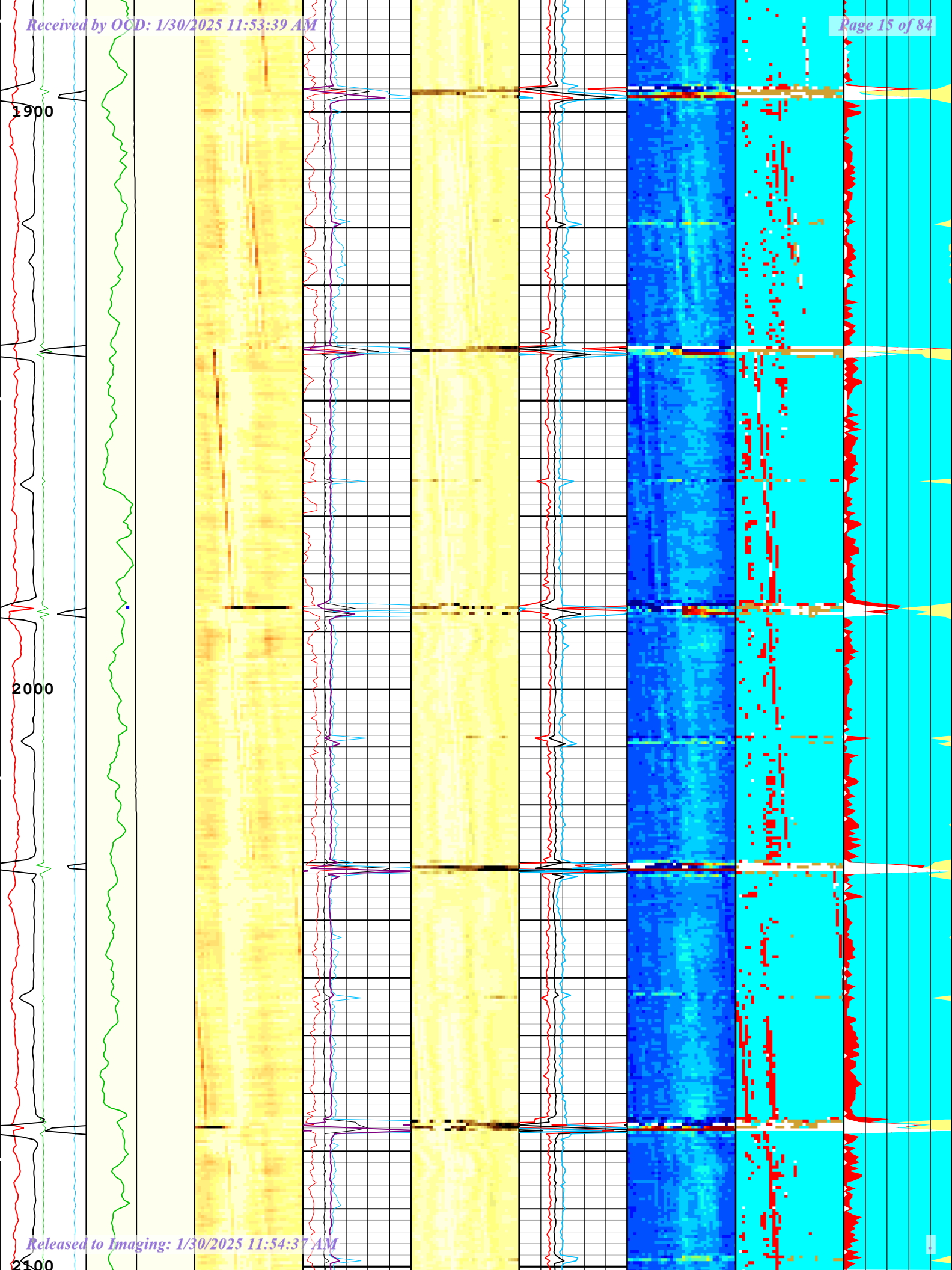


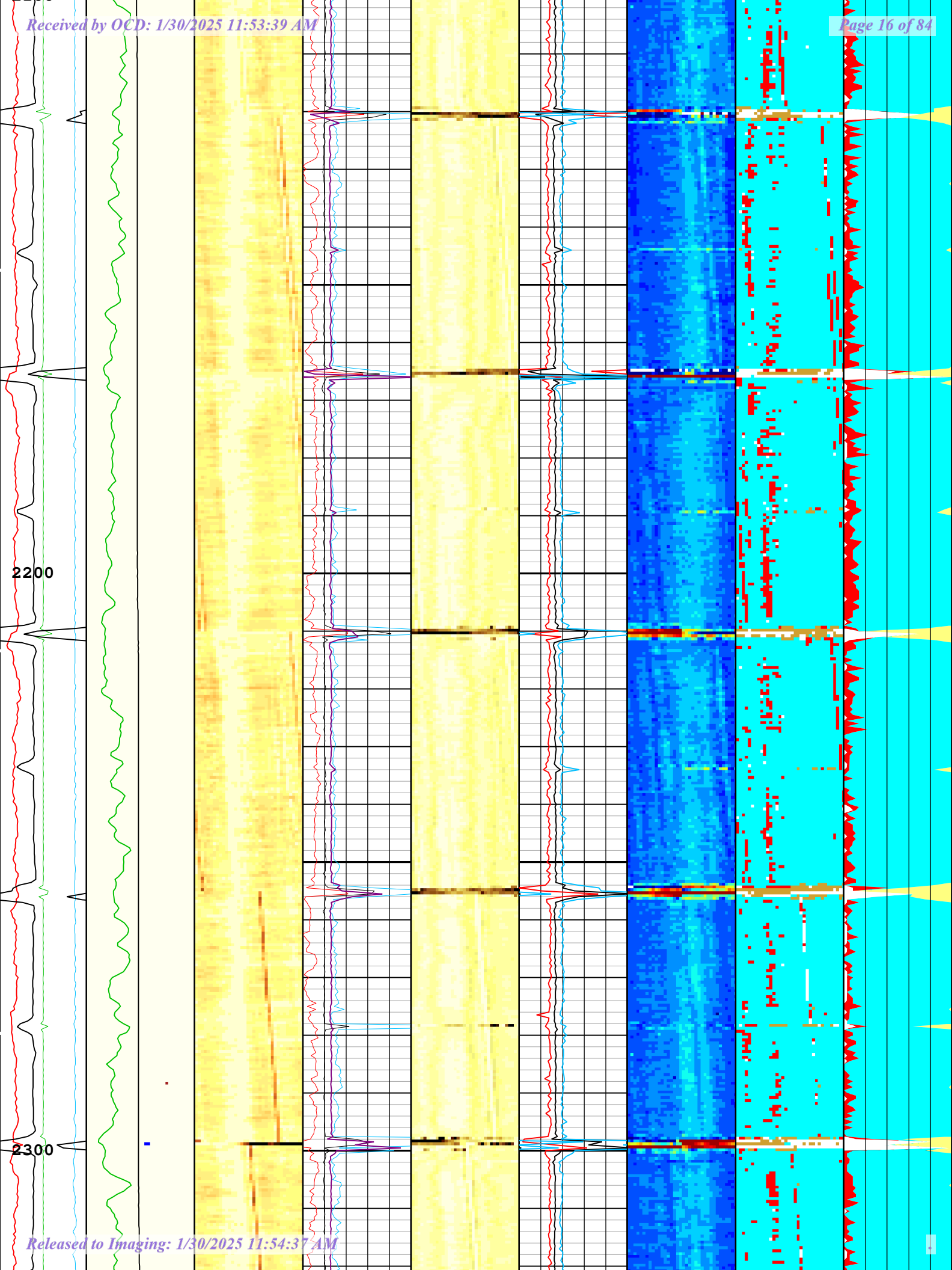


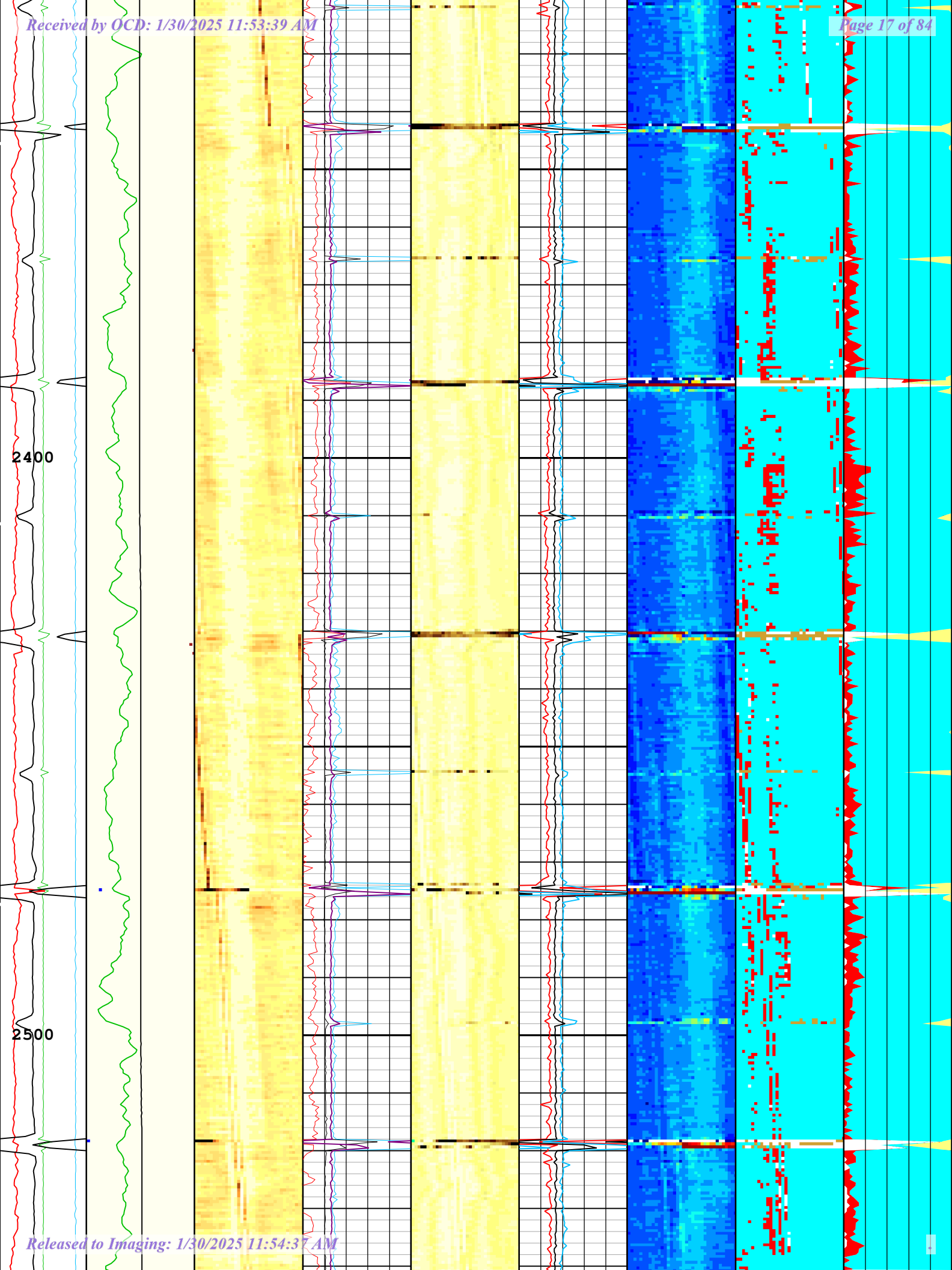


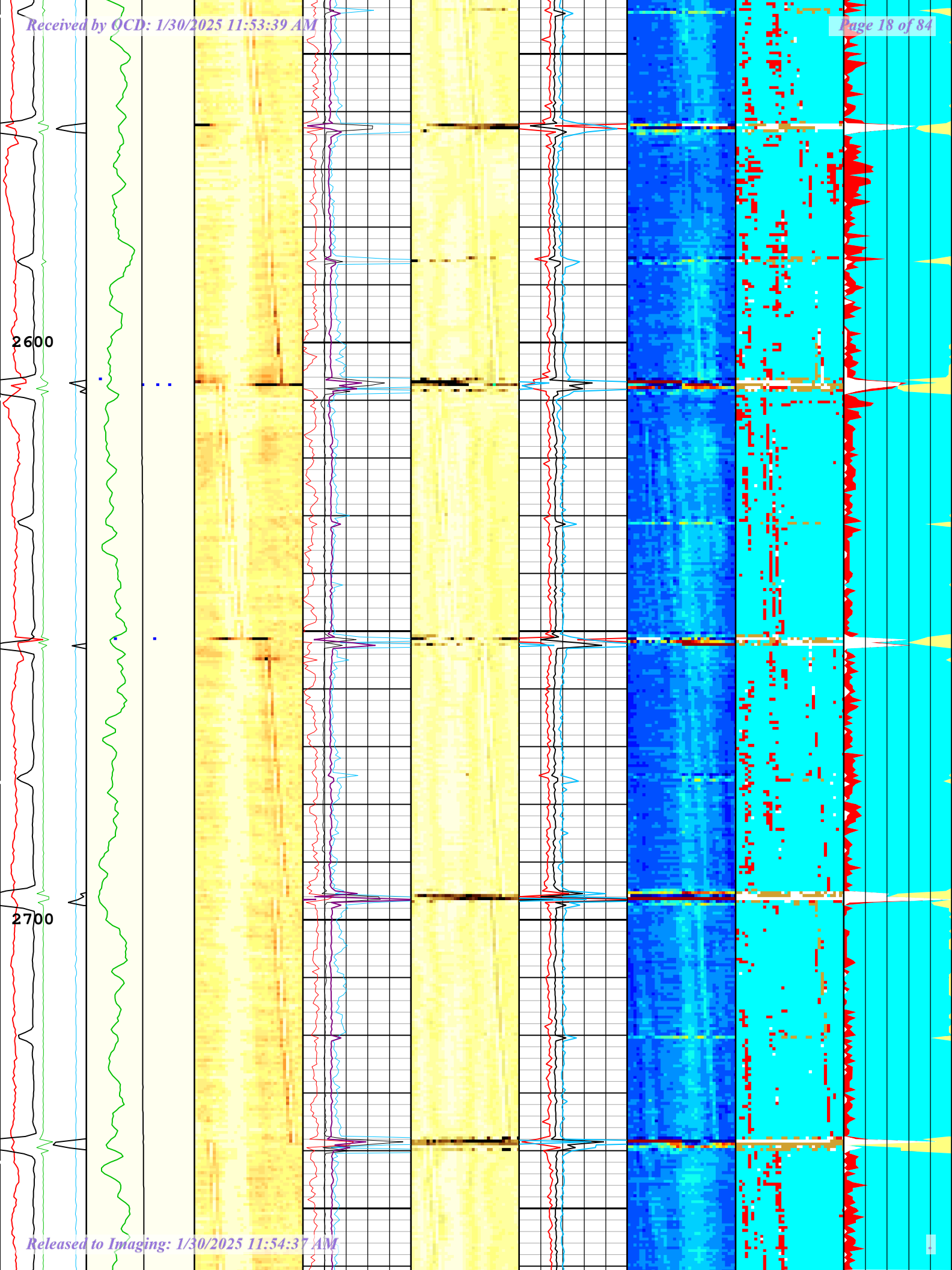


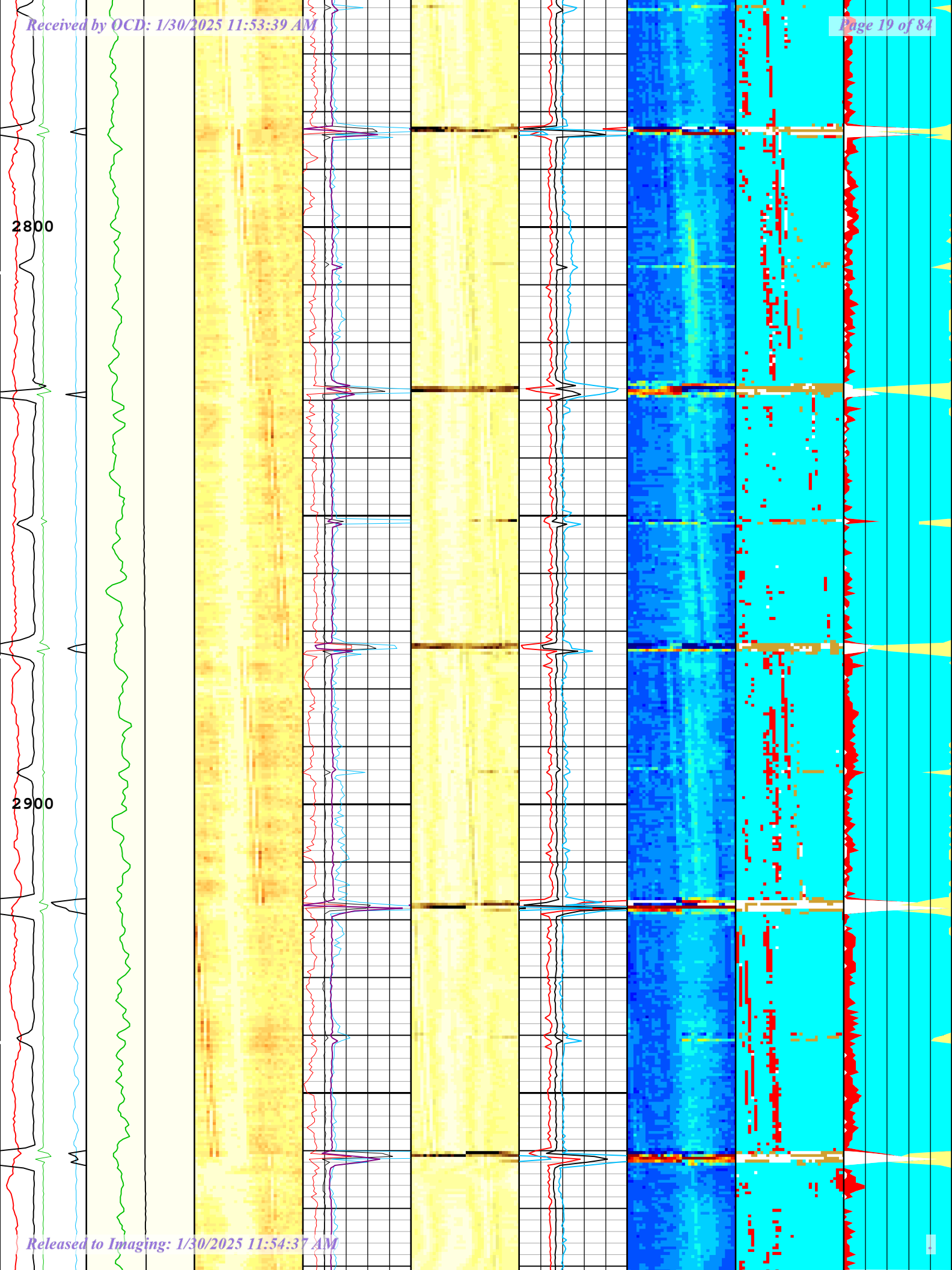


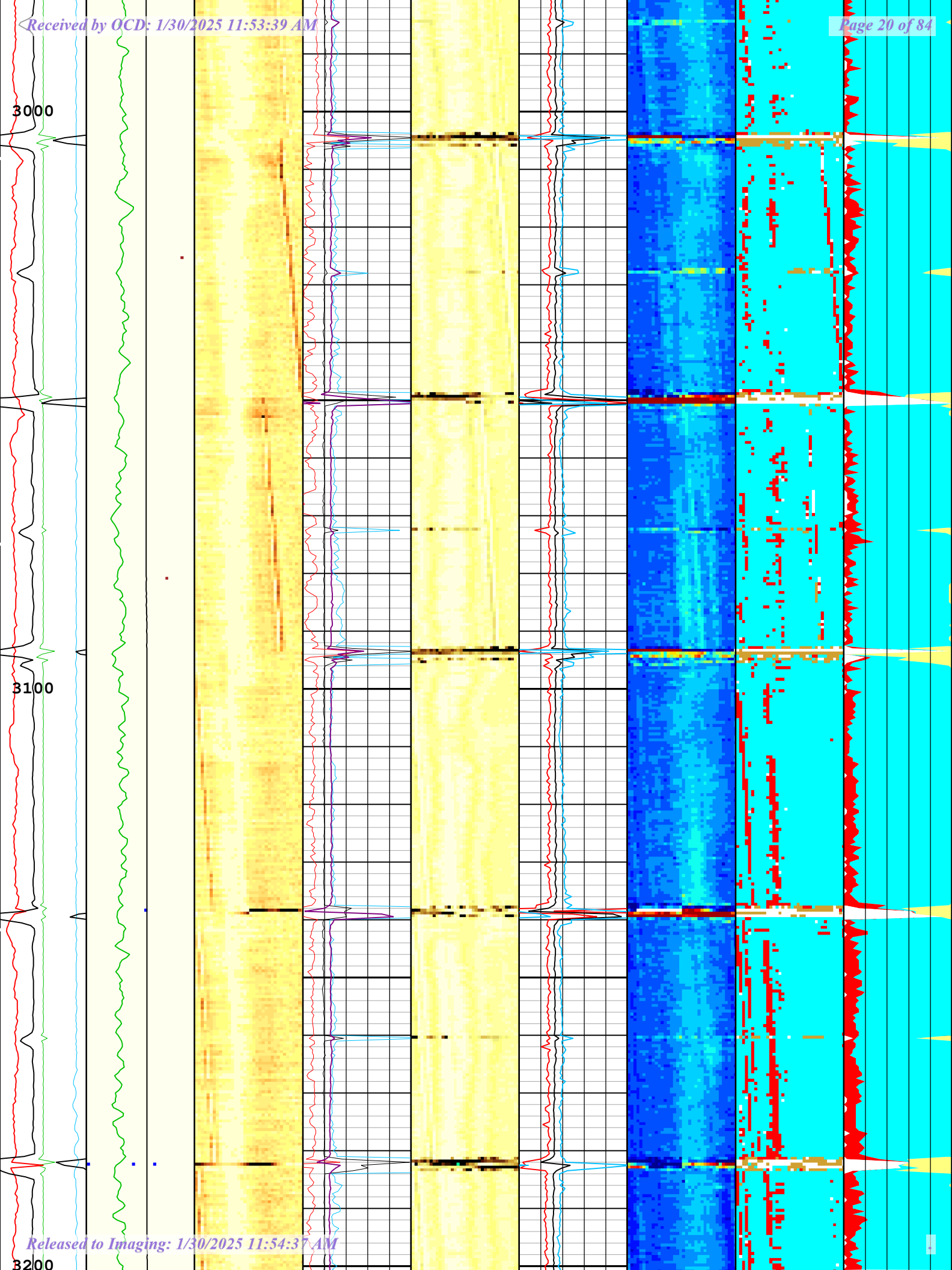


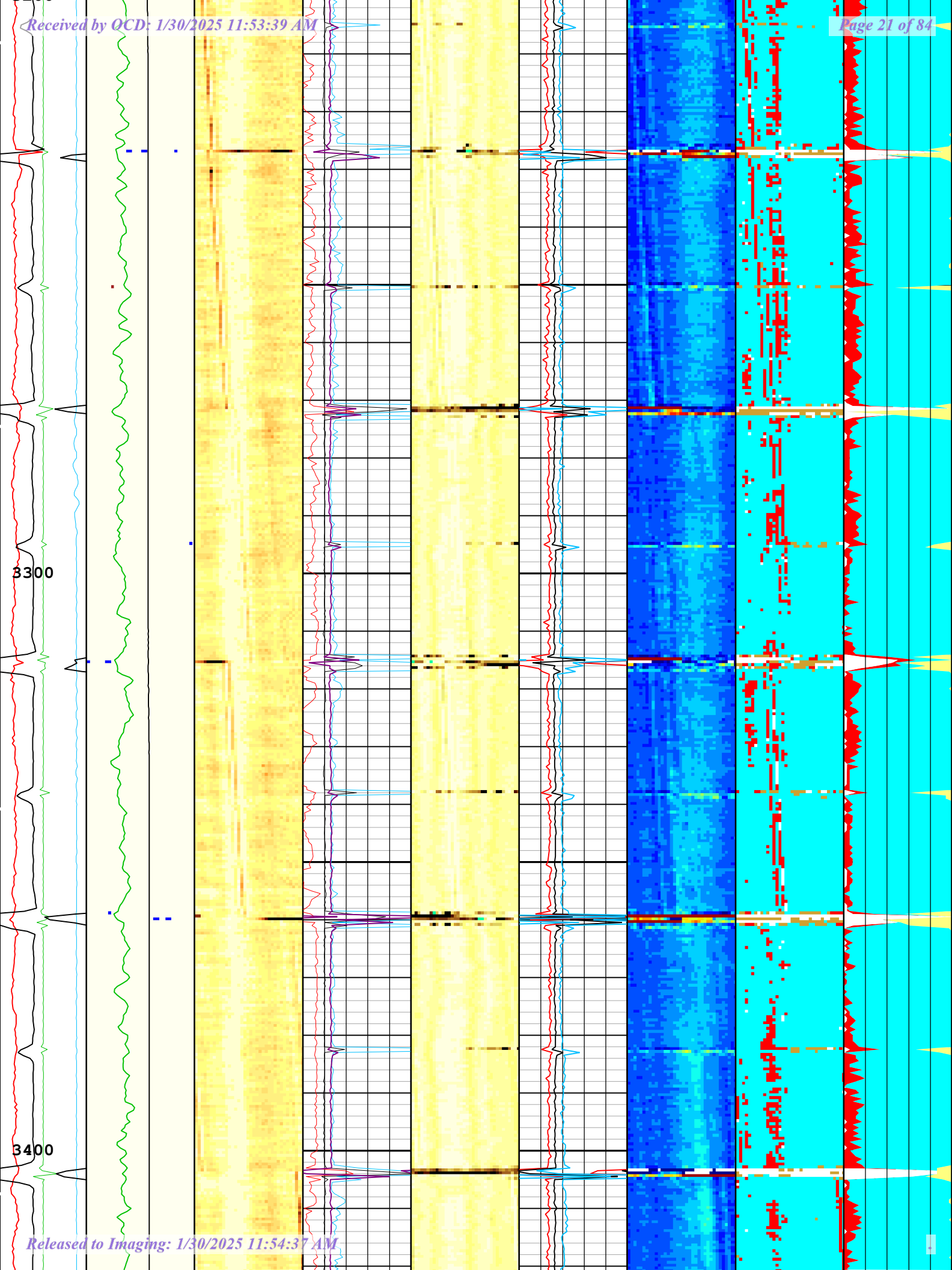


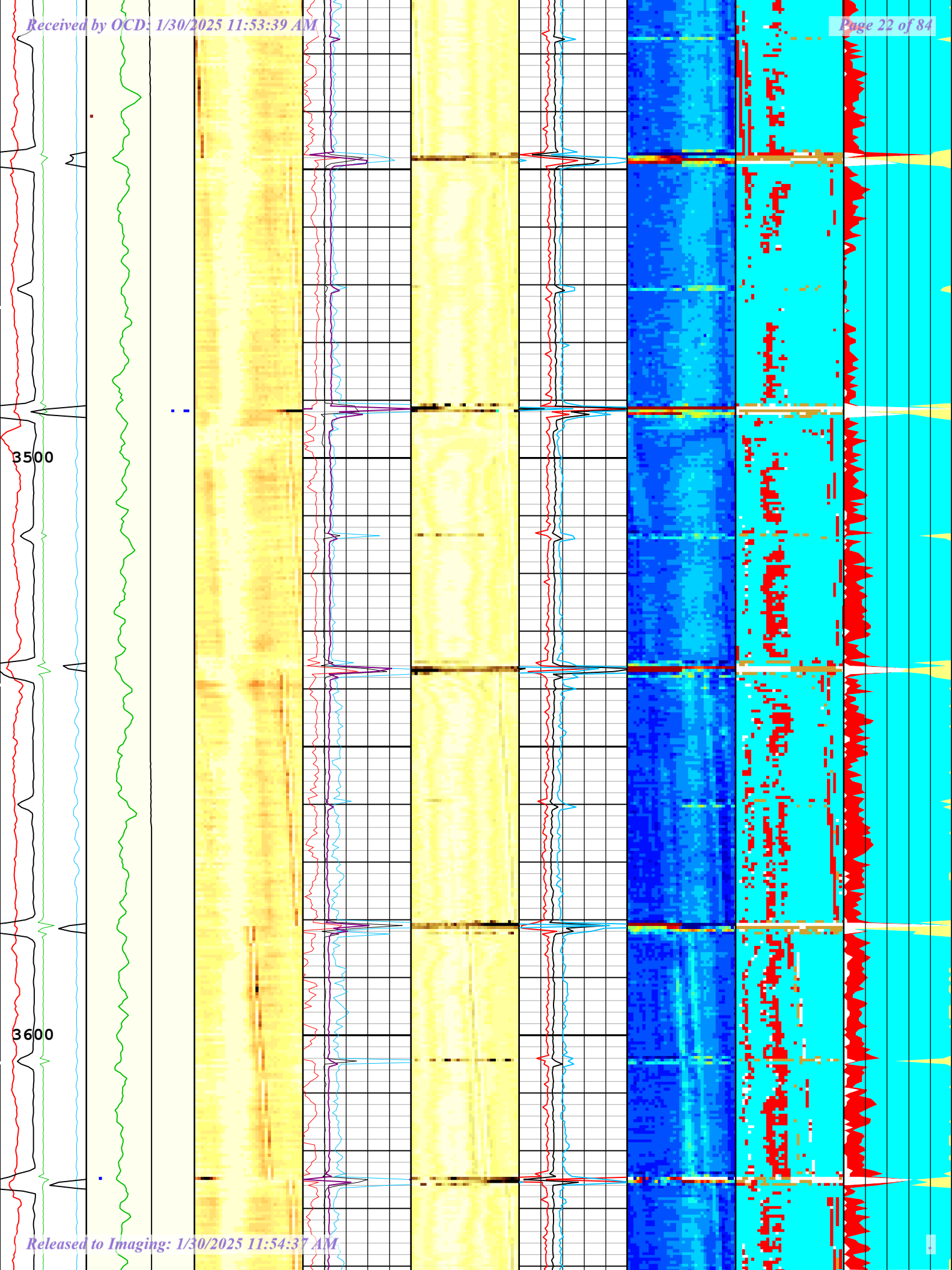


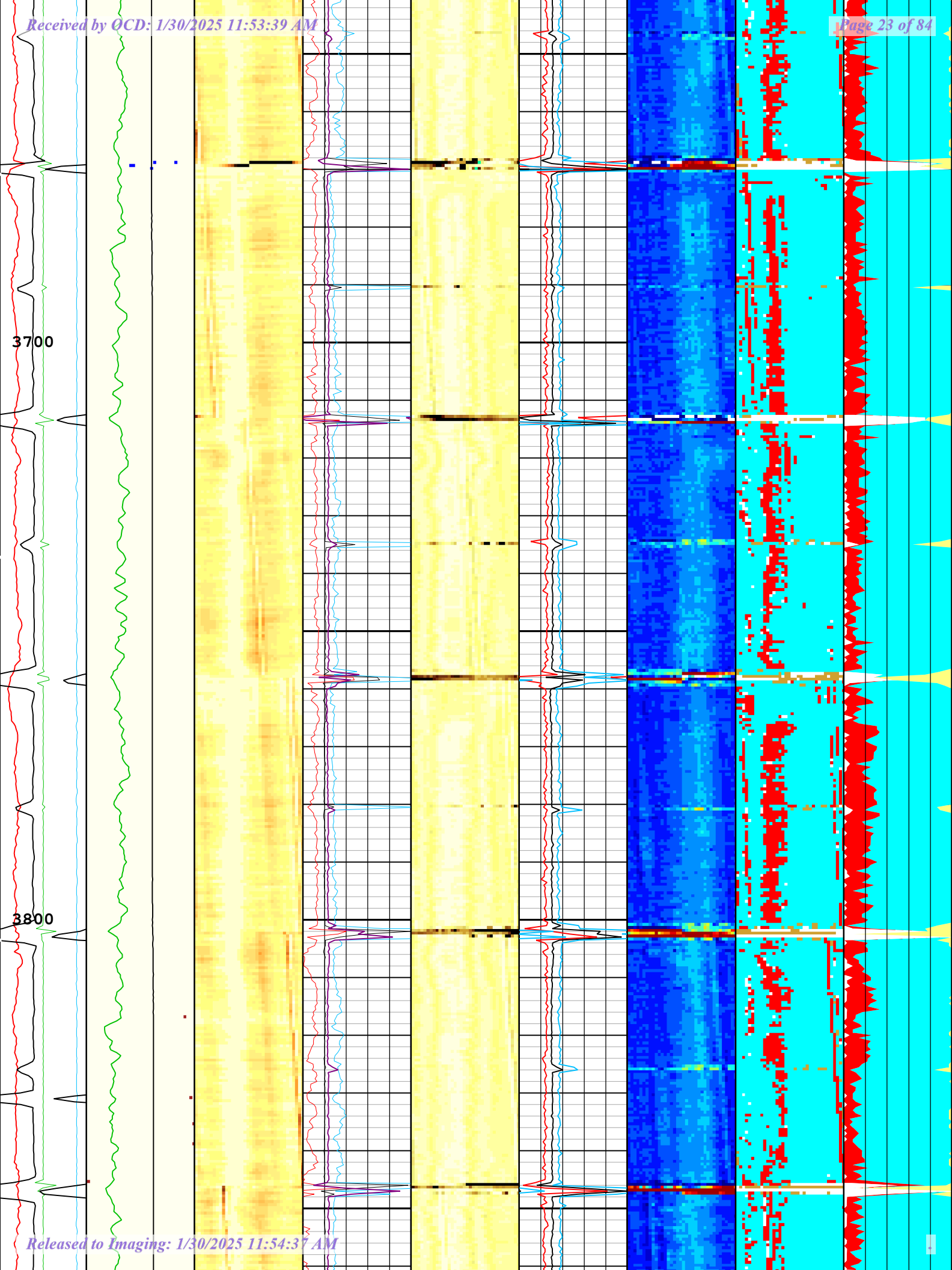


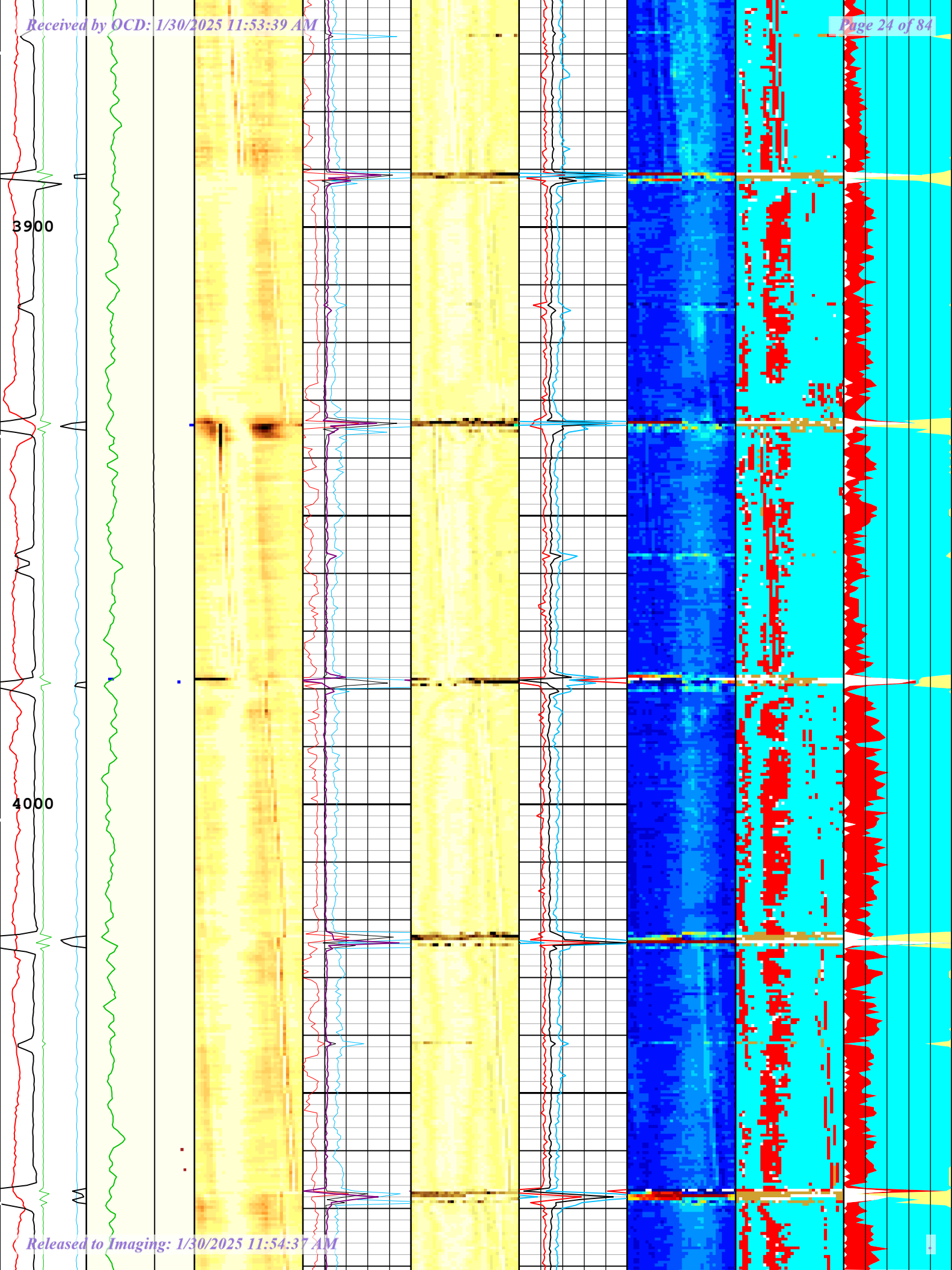


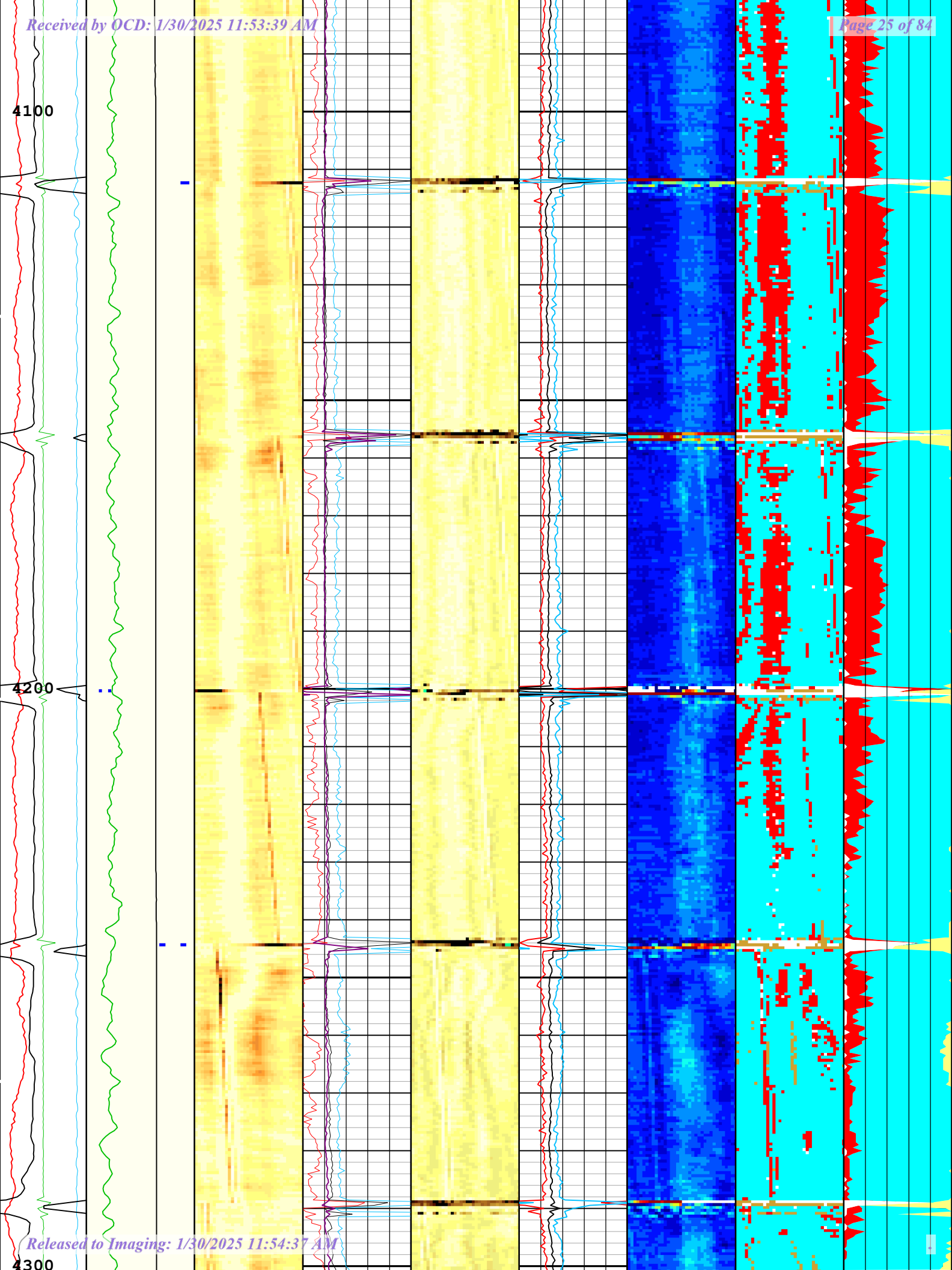


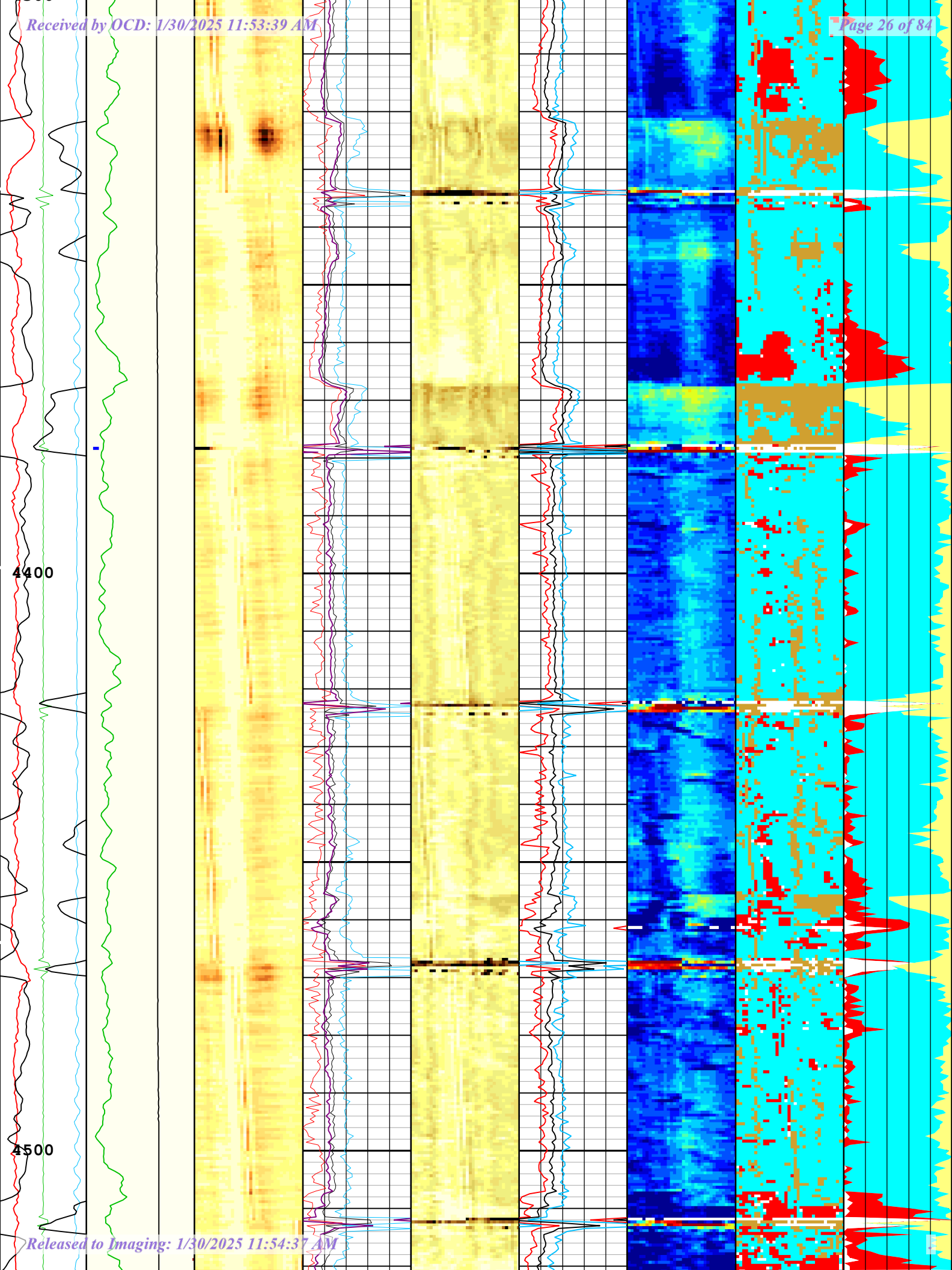


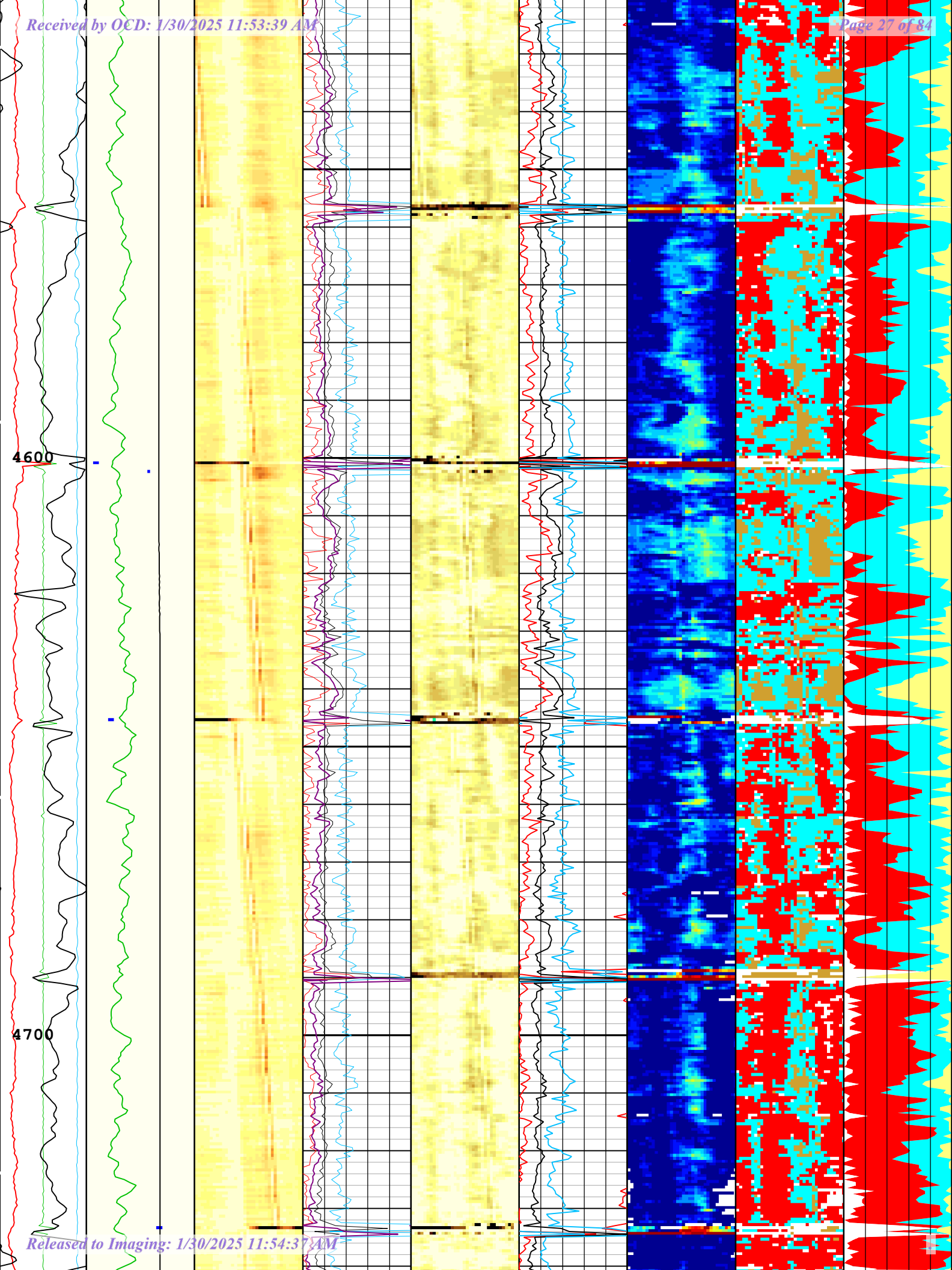


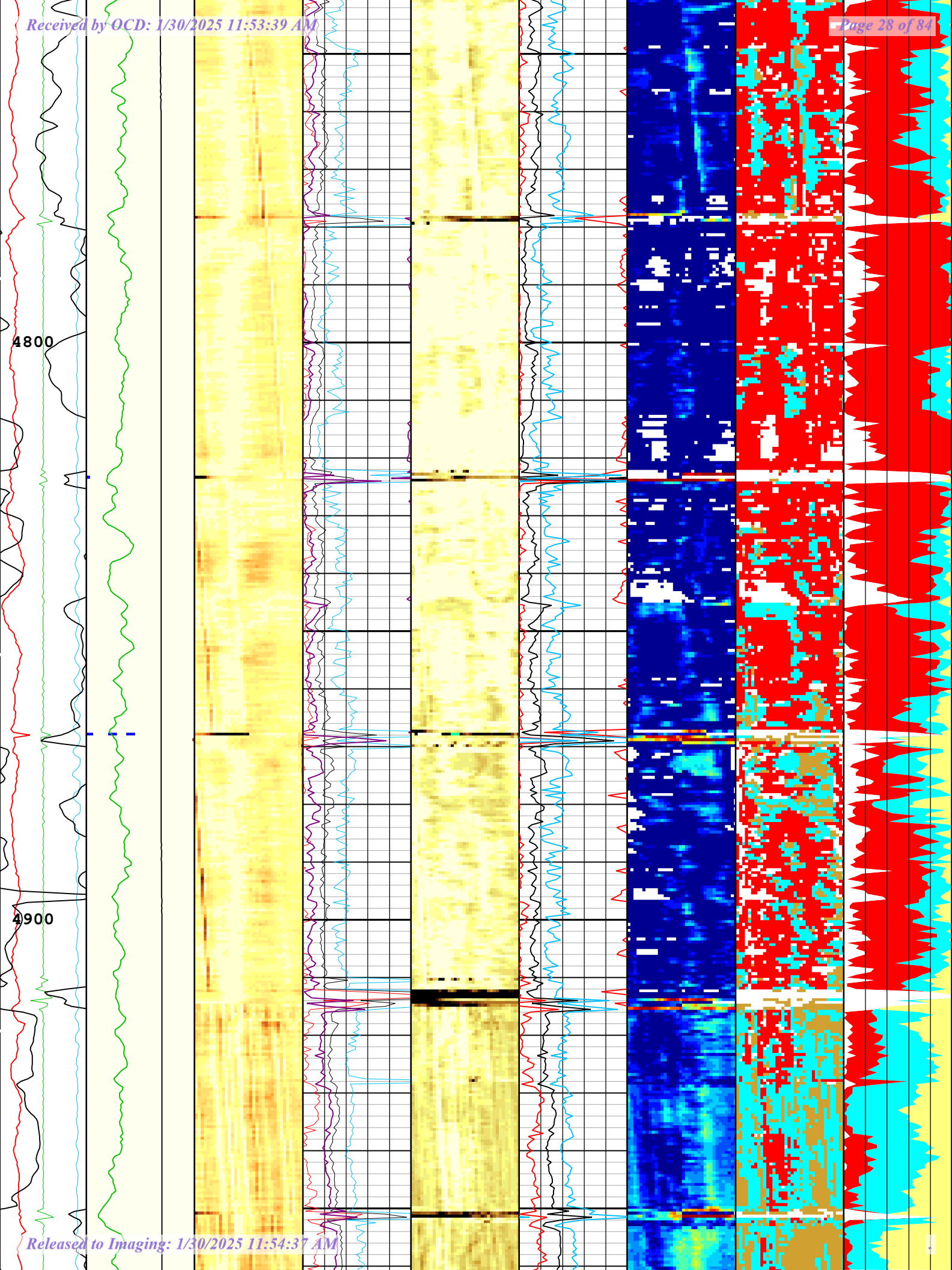


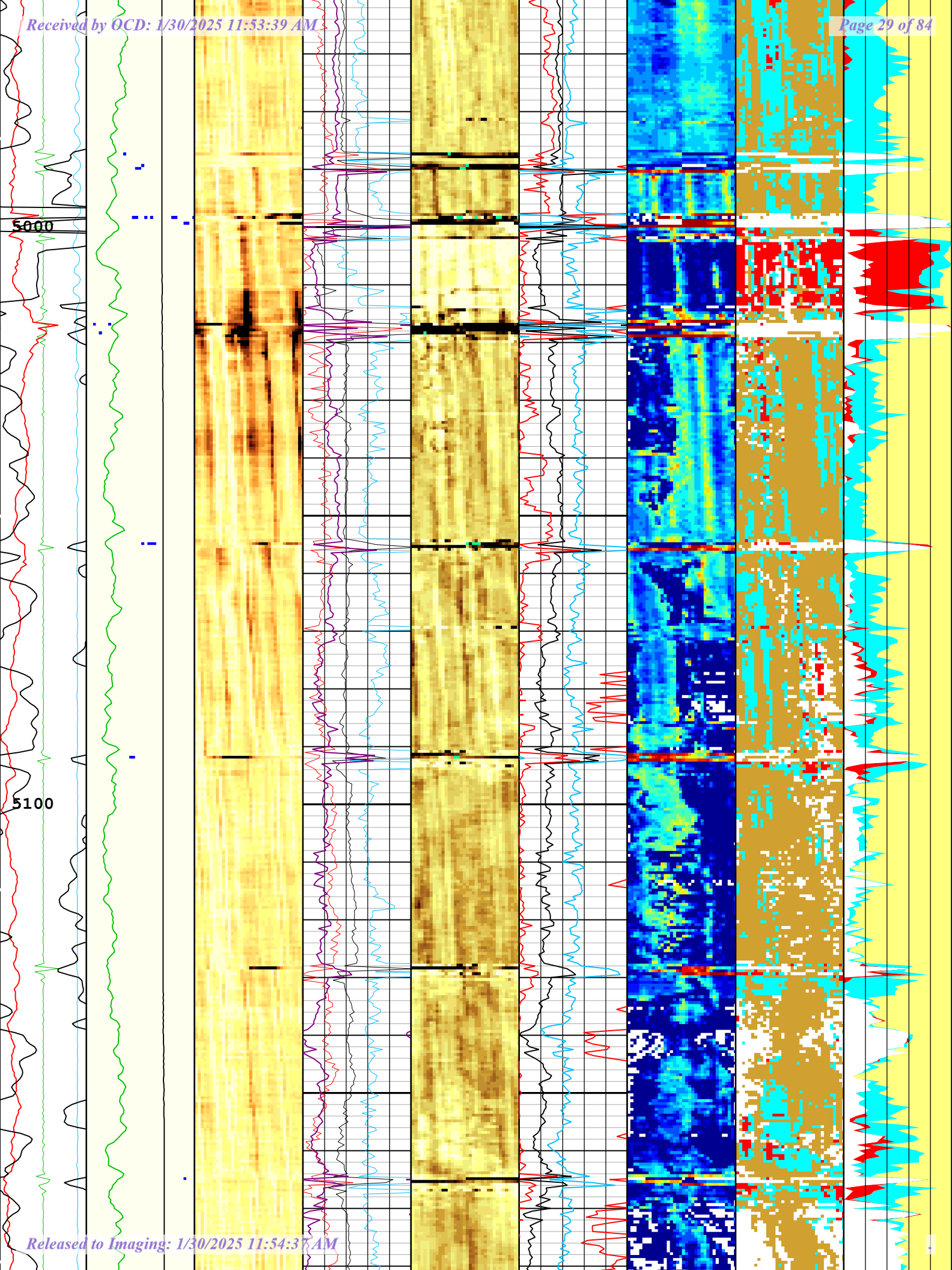


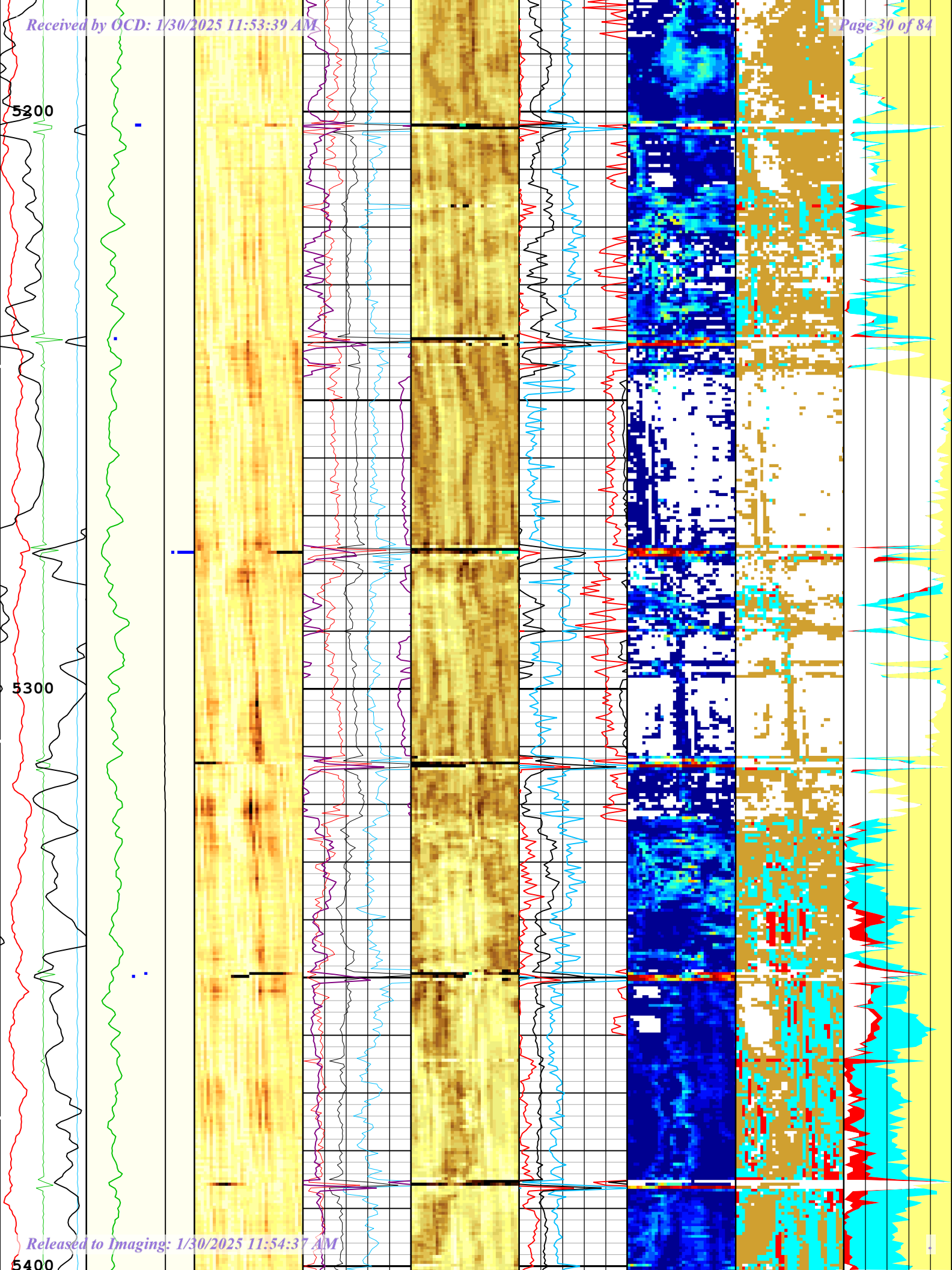


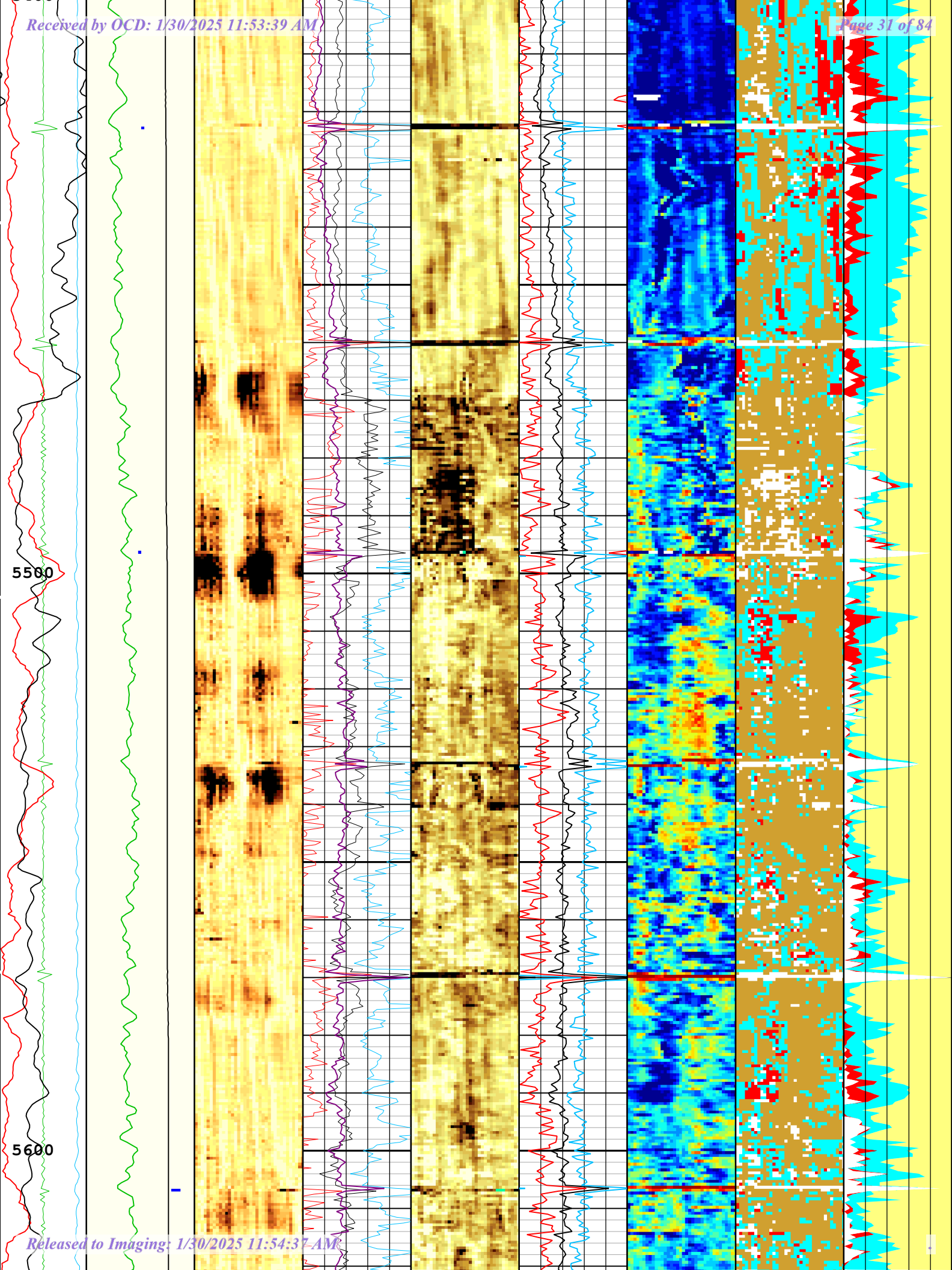


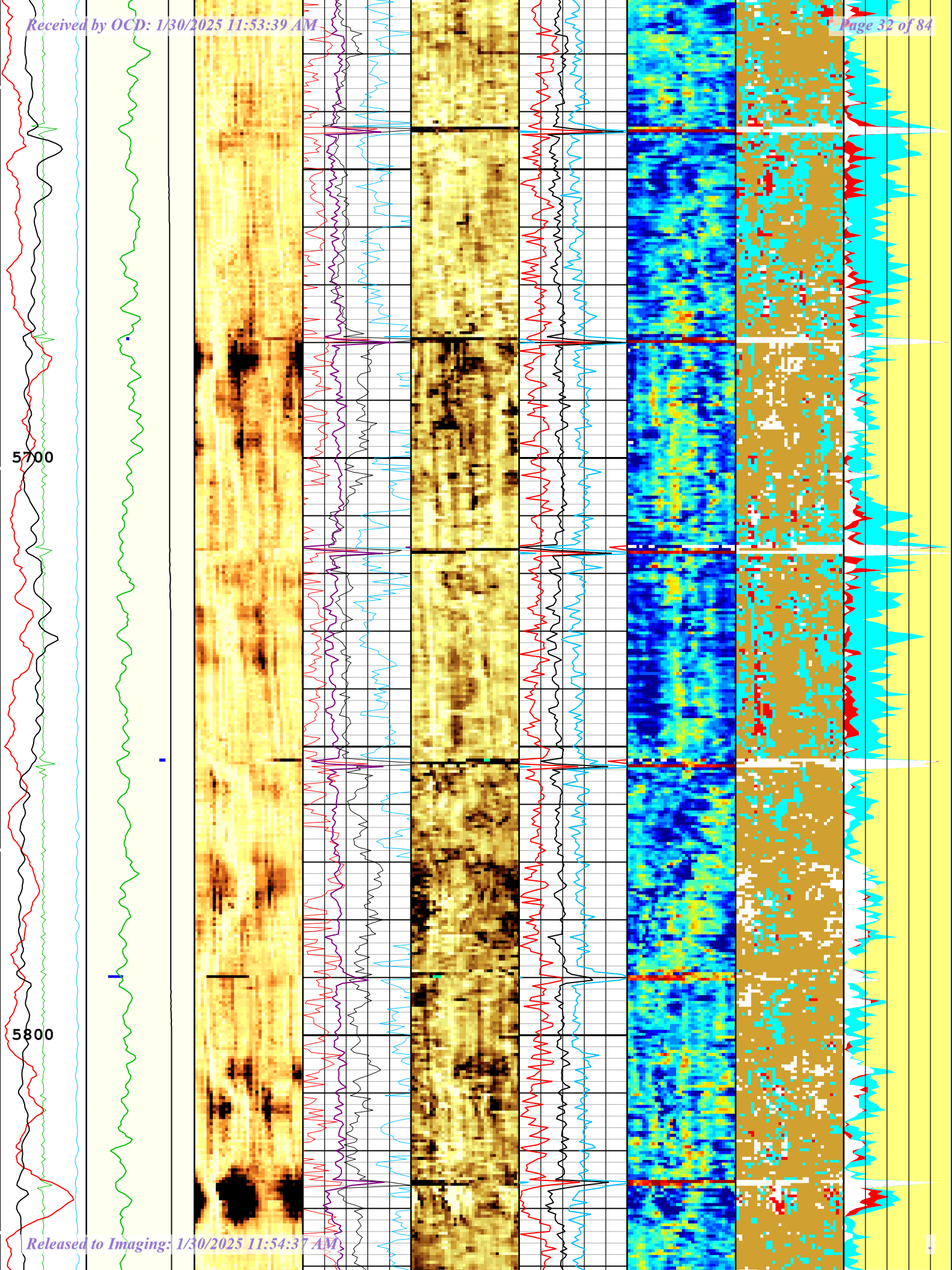


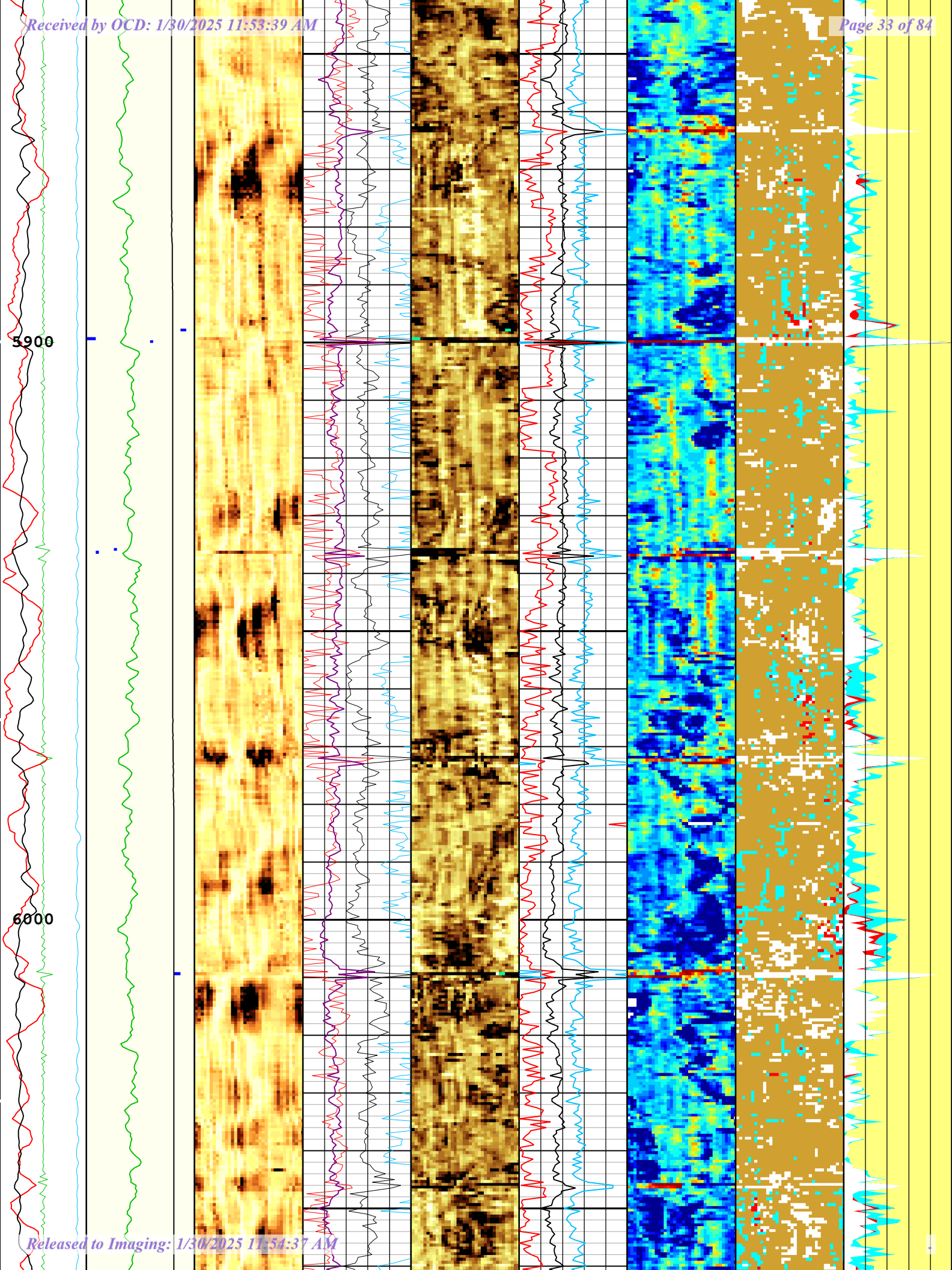


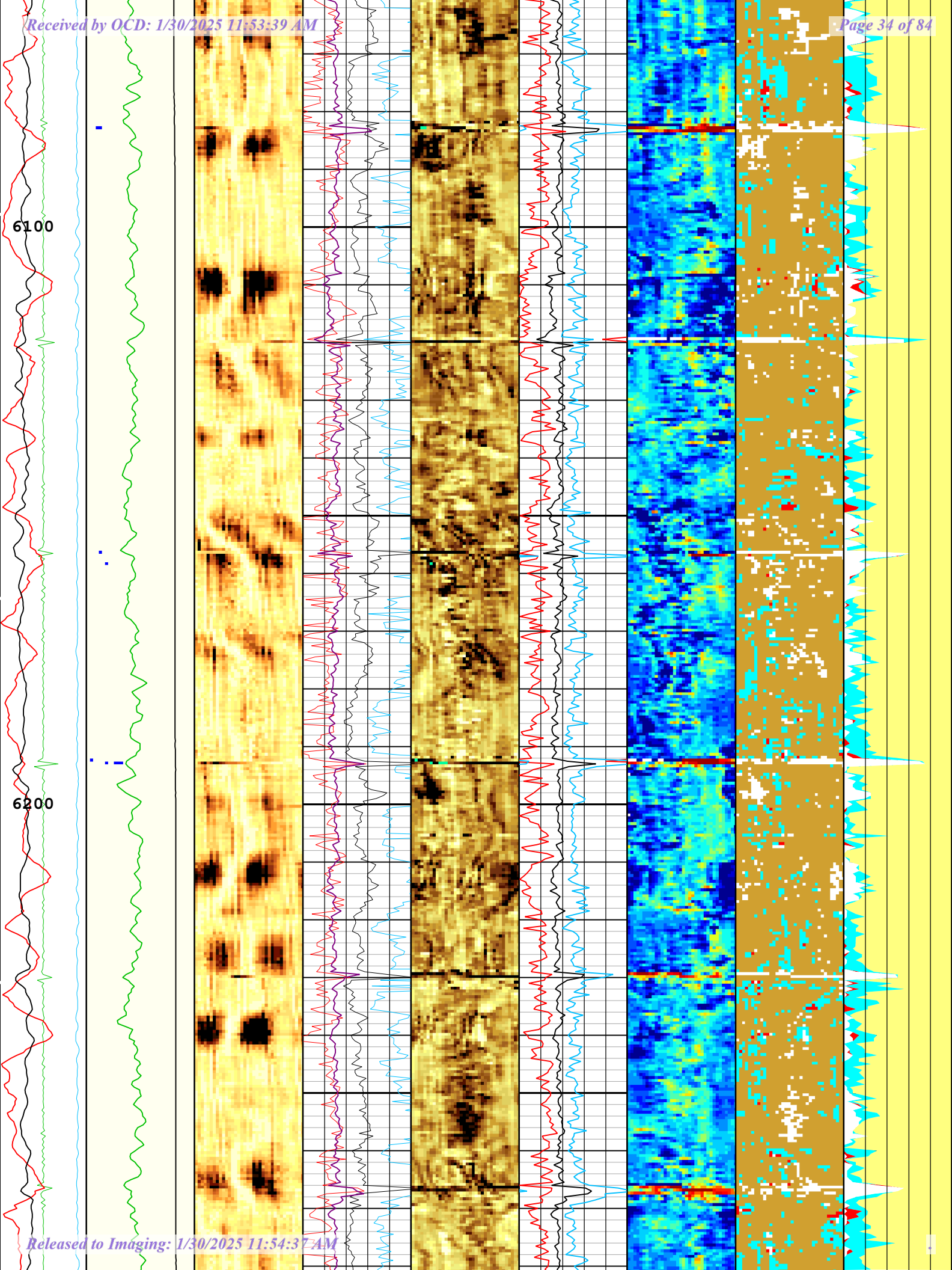


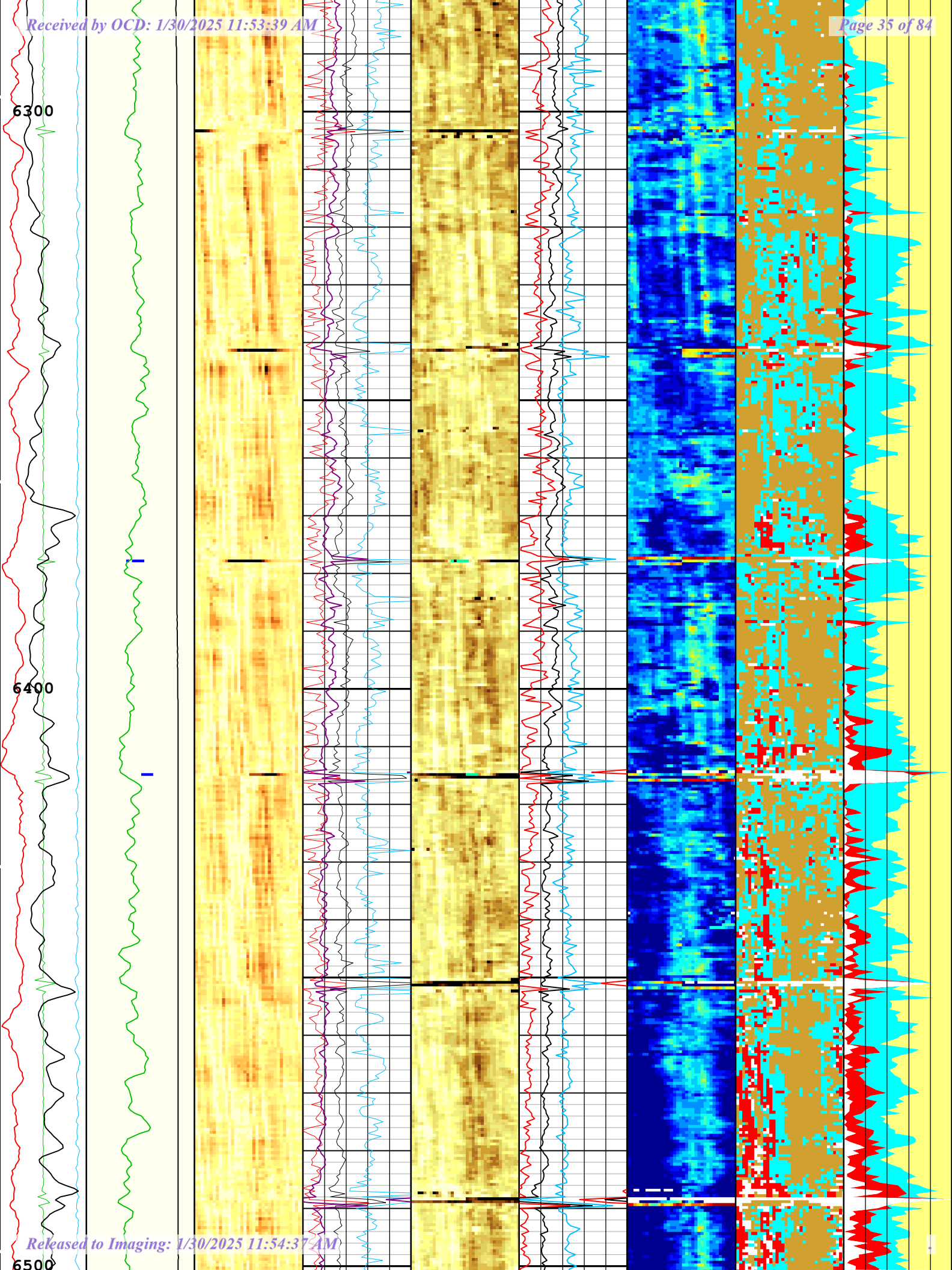


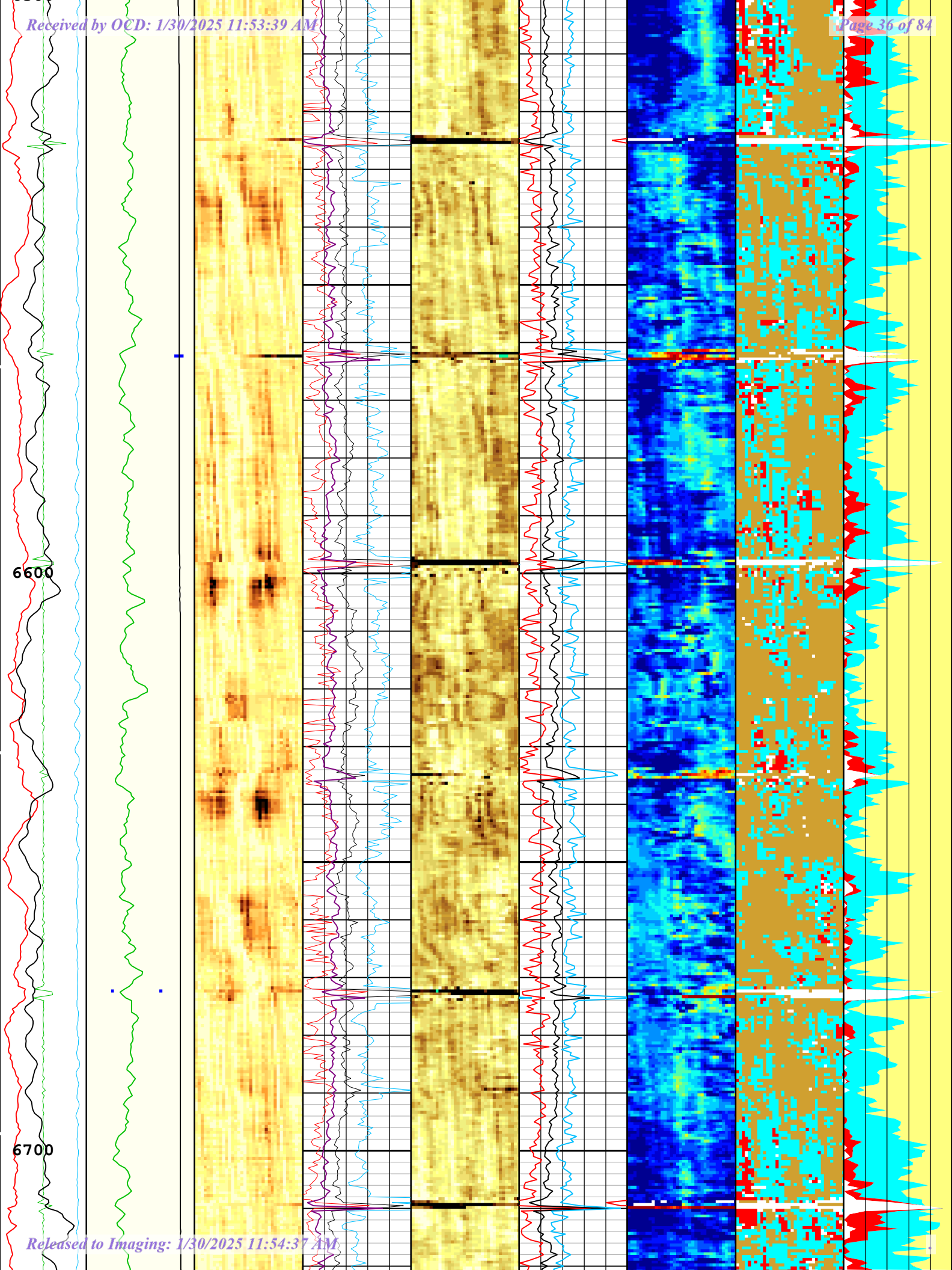


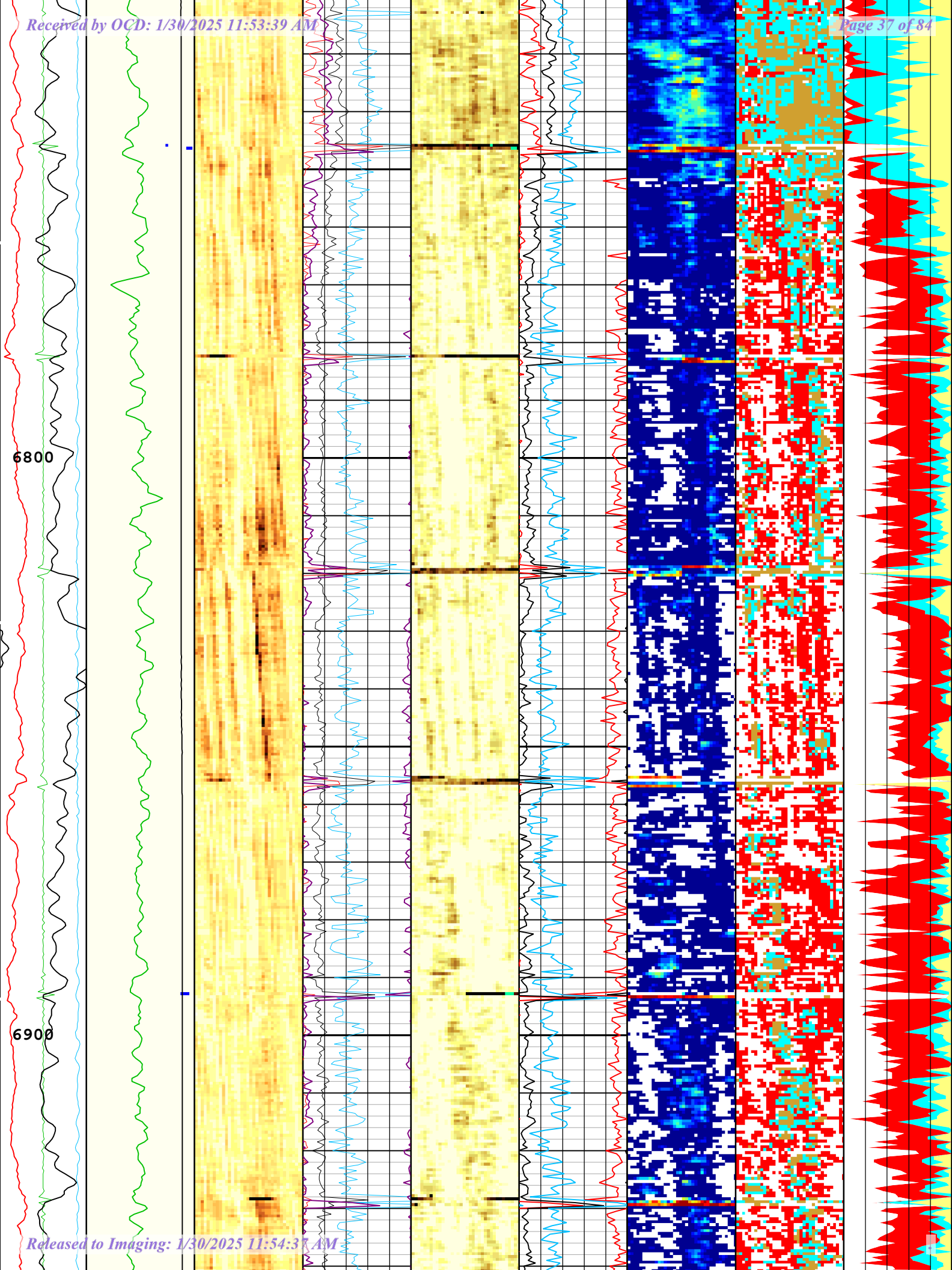


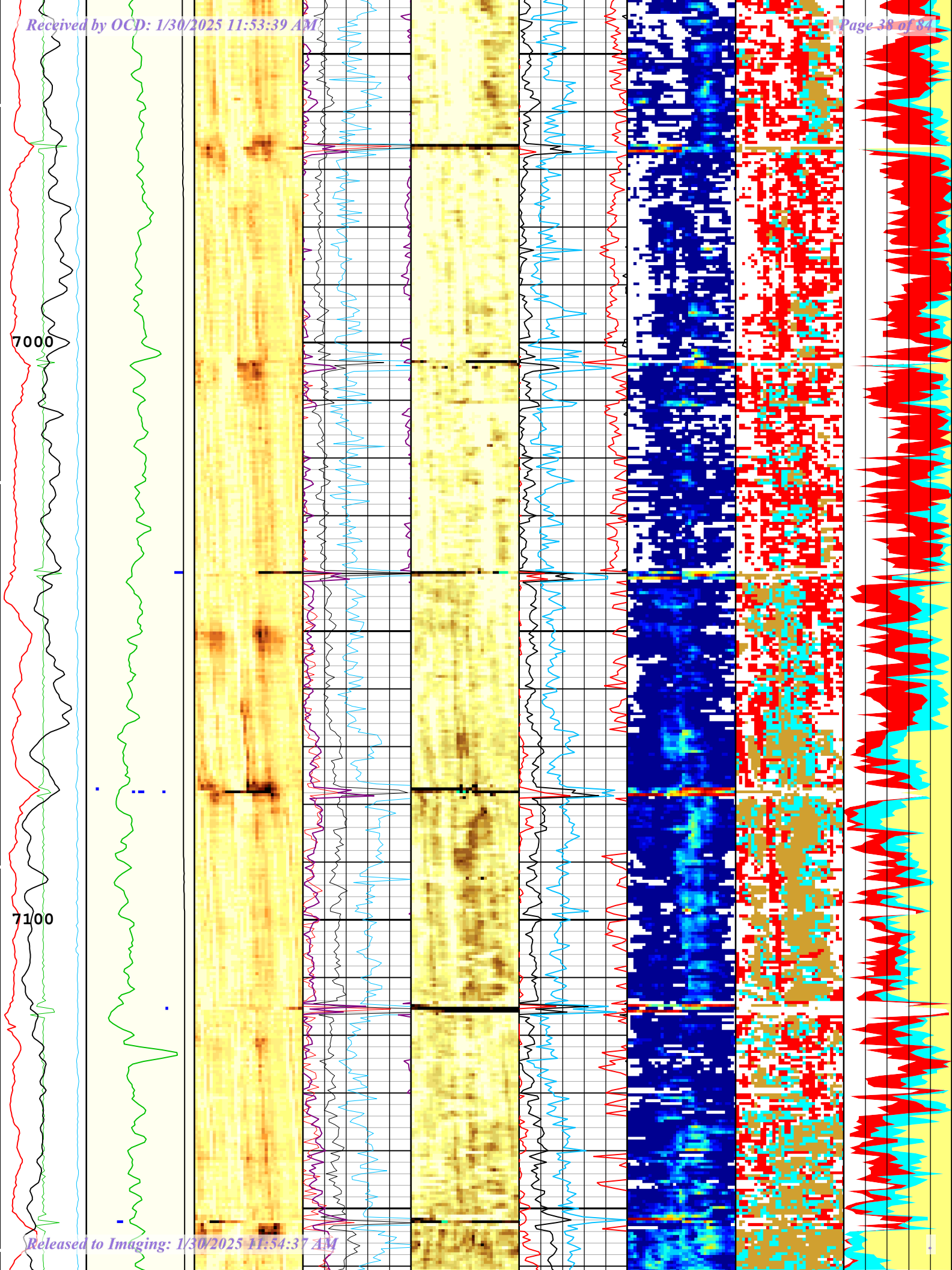


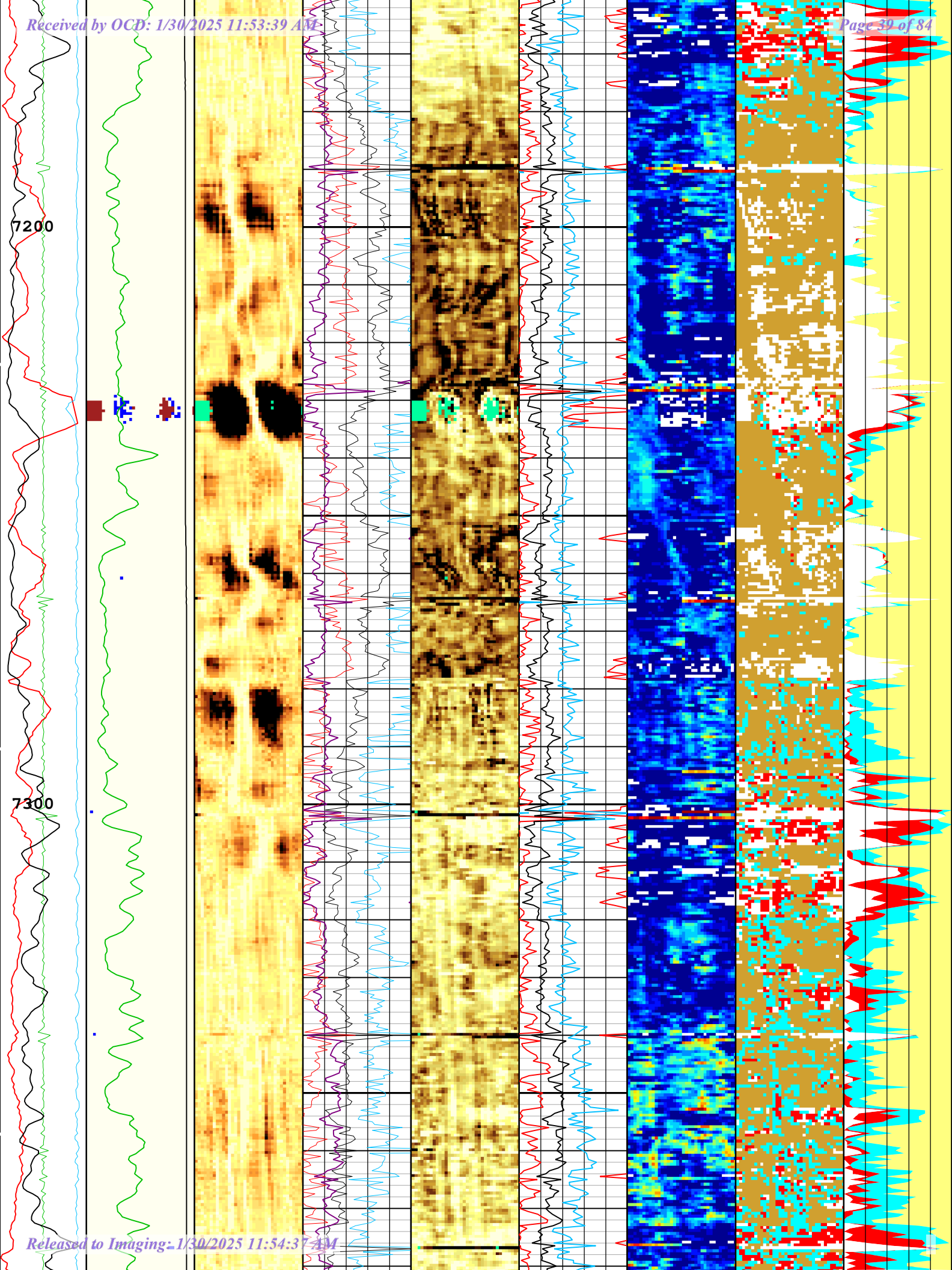


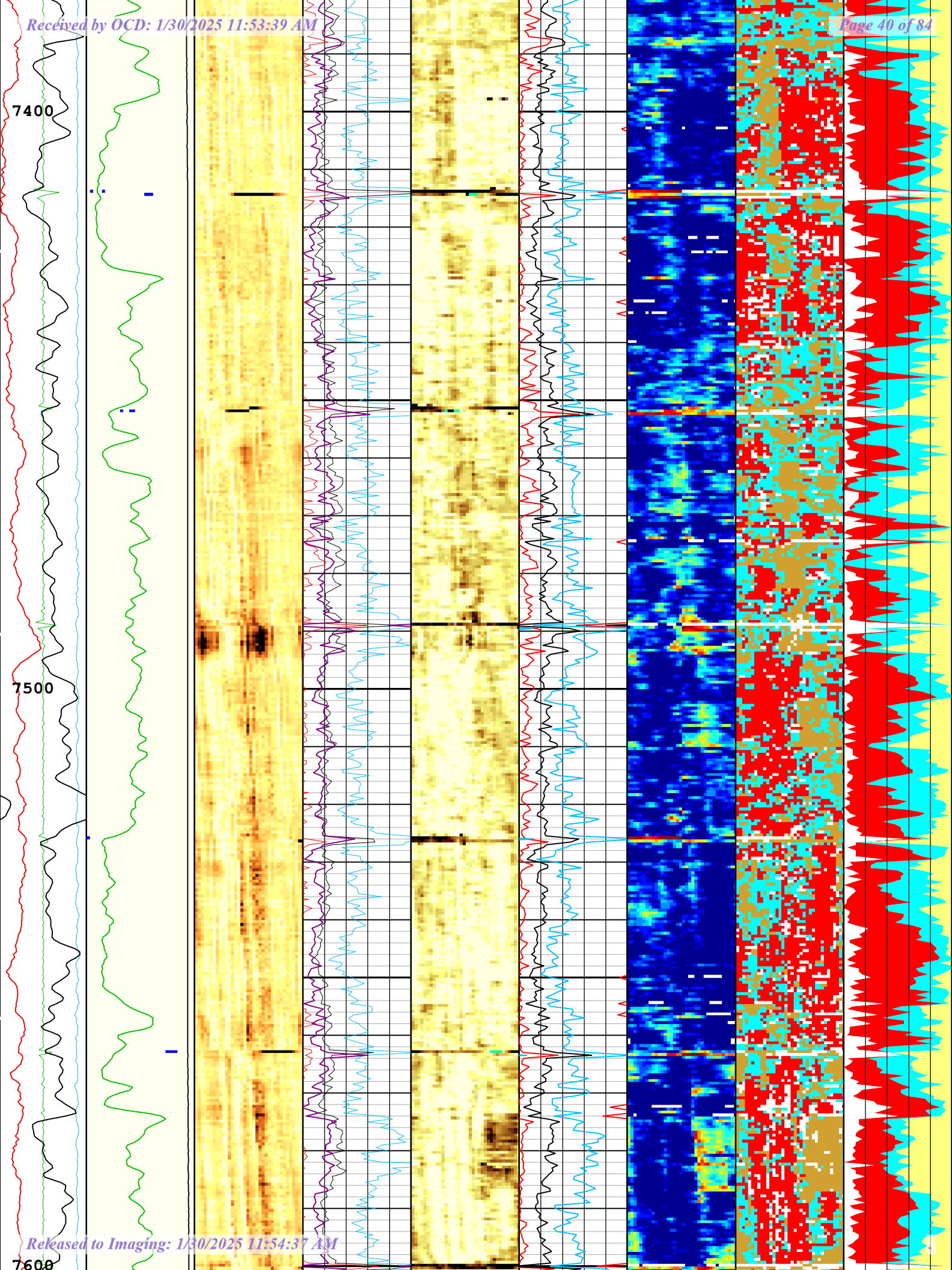


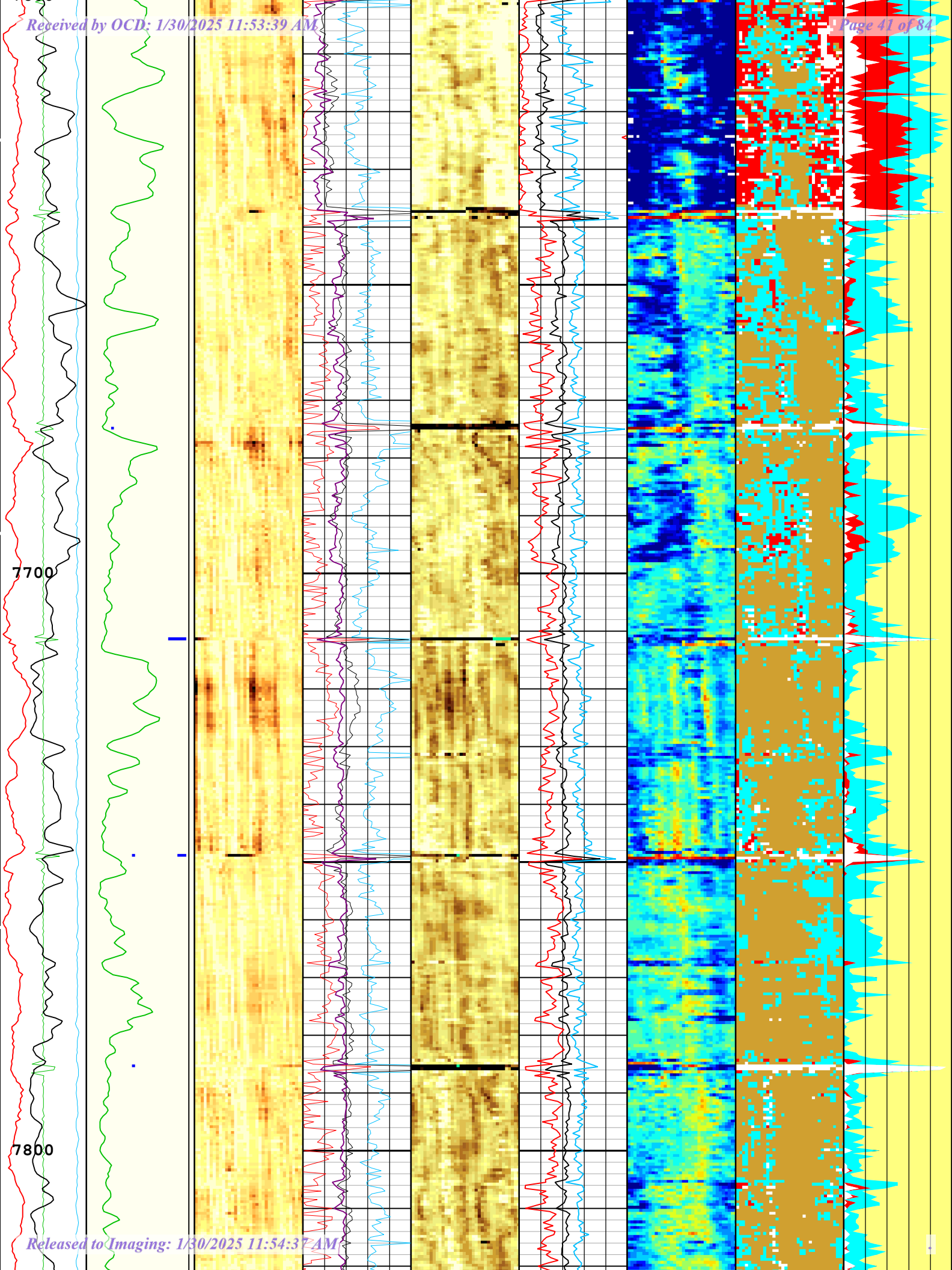


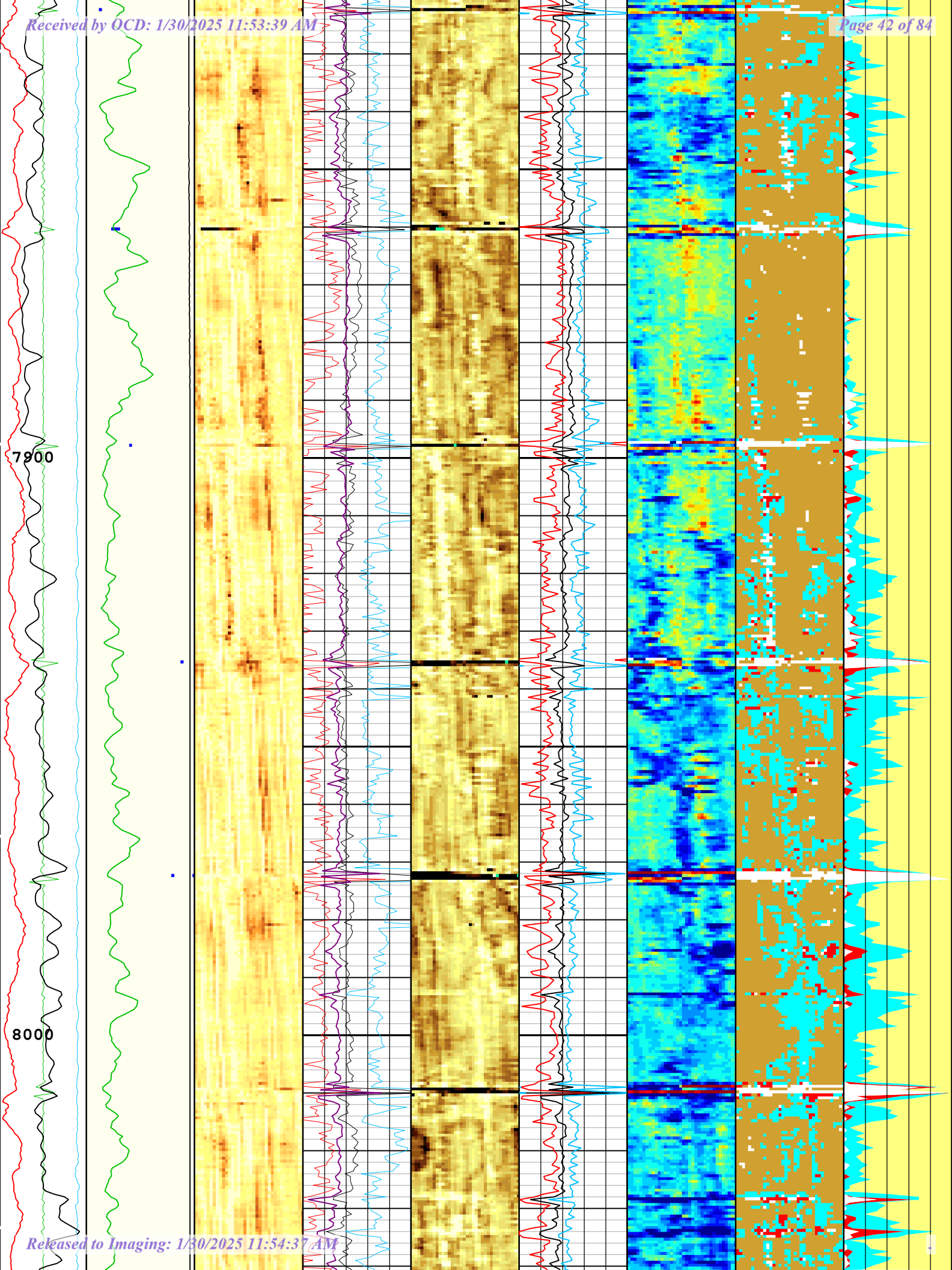


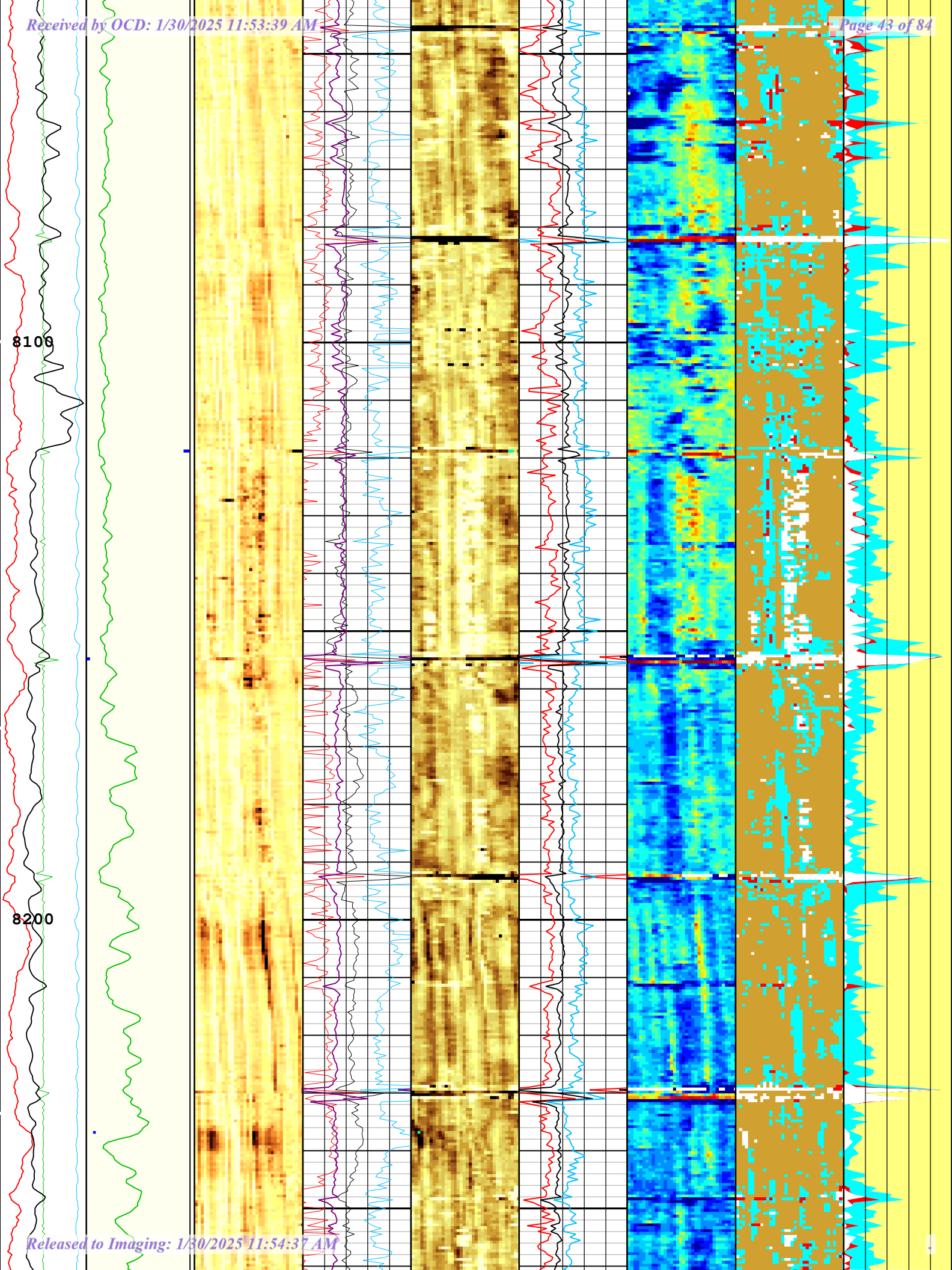


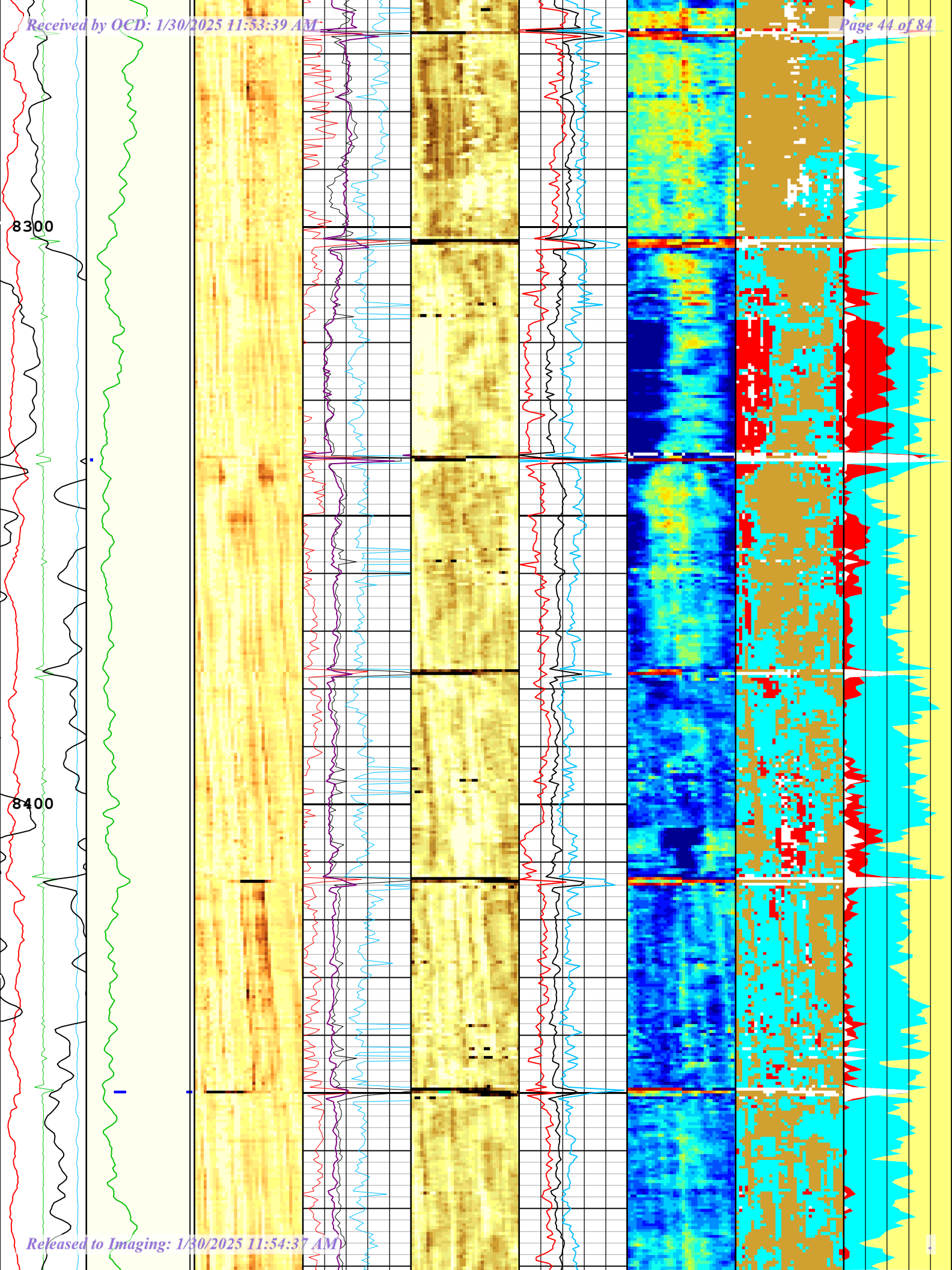


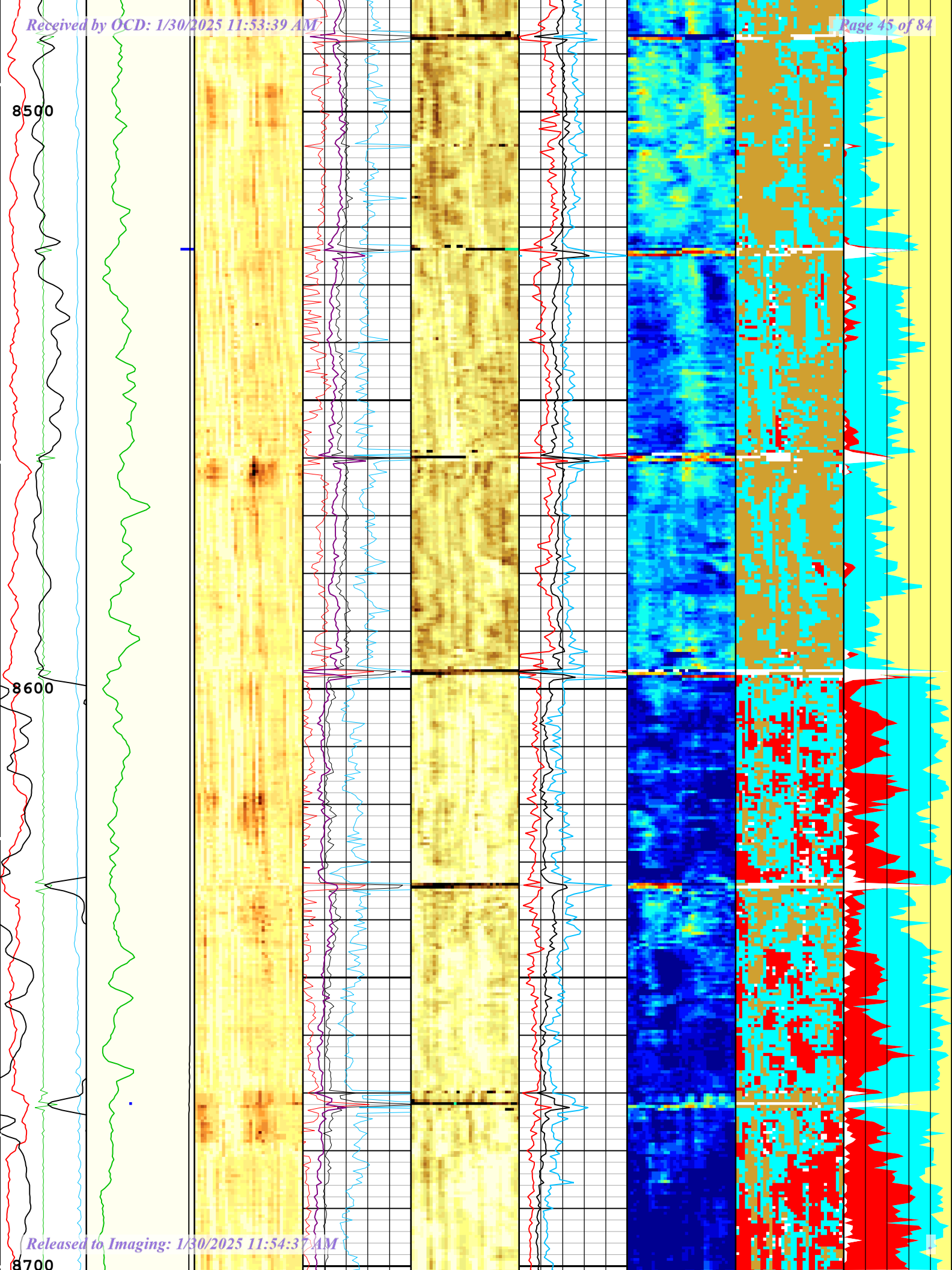


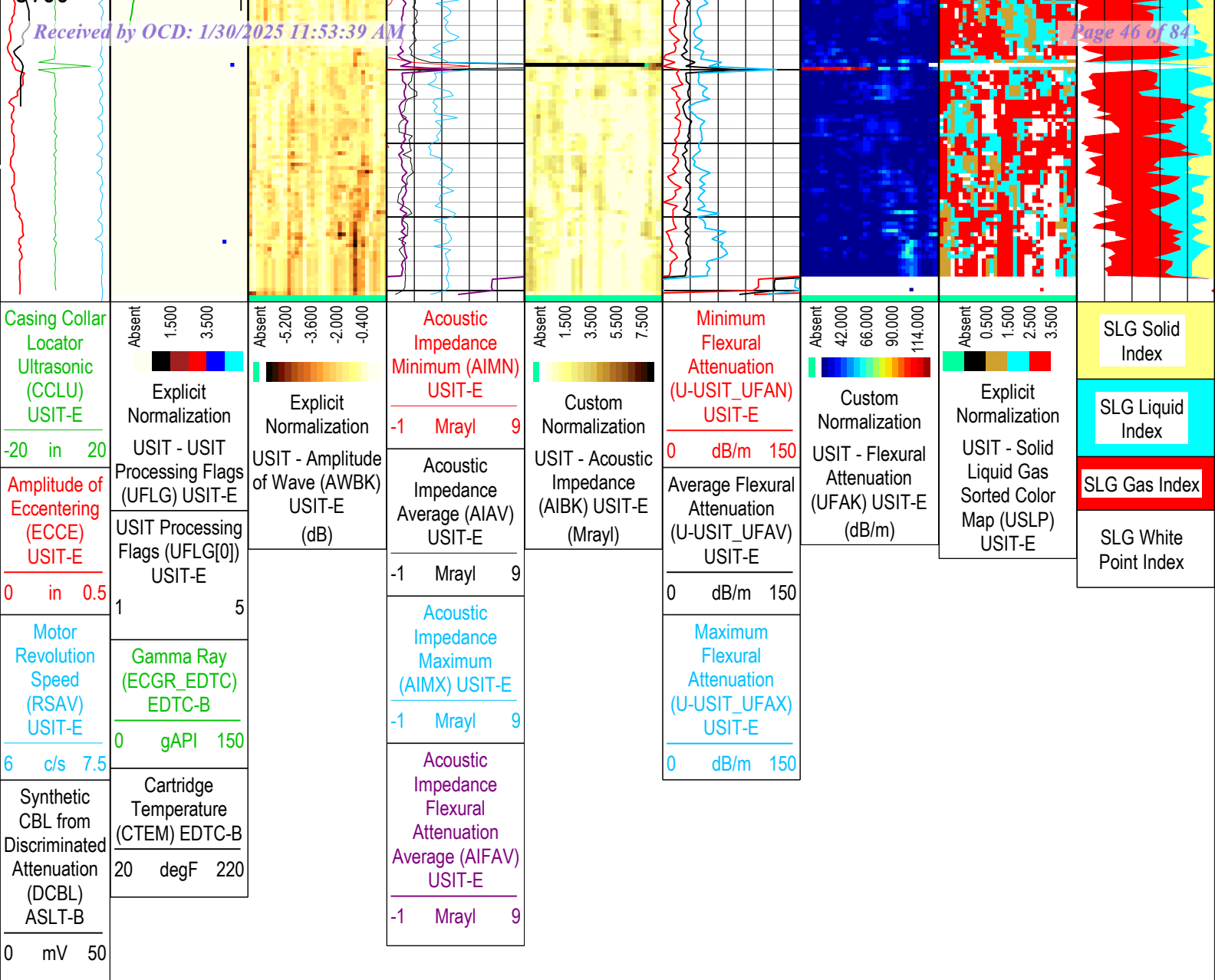












USIT Processing Flags (UFLG[0]) USIT-E

- 1 - UFLG 1 Value within [0.0 - 1.5] - : UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - : Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - : WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 13-Feb-2023 01:12:27

Channel Processing Parameters

6A: Parameters

Parameter	Description	Tool	Value	Unit
BAR(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	8800	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	73	mV

CDEN	Cement Density	USIT-E	10.01	lbm/gal
Received by OCD: 1/30/2025 11:53:39 AM				
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.415	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFAD	Slim Sonic DFAD Computation Control	ASLT-B	Downhole	
DFD	Drilling Fluid Density	Borehole	8.7	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.61	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)	
GOBO_CURR	Good Bond in Arbitrary Cement	ASLT-B	6.28	mV
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	-33.35	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	Manual	
IMAR	Image Rotation	USIT-E	Off	
MATT	Maximum Attenuation	ASLT-B	34.22	dB/m
MATT_CURR	Maximum Attenuation in Arbitrary Cement	ASLT-B	34.22	dB/m
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.94	us
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	ASLT-B	3.4	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.06	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.07	
NFPI_L5	Near Free Pipe Sonic Amplitude for Lower Transmitter - Receiver 5	ASLT-B	0	
NFPI_U1	Near Free Pipe Sonic Amplitude for Upper Transmitter - Receiver 1	ASLT-B	0	
R42R	R4 to R2 Sensitivity Ratio	ASLT-B	0	dB/m
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SALL	Sonic Amplitude Lower Limit	ASLT-B	20	mV
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	1.58	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	Time Zoned	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ULTR	Upper to Lower Transmitter Power Ratio	ASLT-B	0	dB/m
THDP	Thickness Detection Policy	USIT-E	Fundamental	
Released to Imaging: 1/30/2025 11:54:37 AM				
VCA	Transverse Velocity in Casing	USIT-E	51.4	us/ft
ZCAS	Acoustic Impedance of Casing	USIT-E	46.25	Mrayl

CAS	Acoustic Impedance of Casing	USIT-E	46.23	Mrayl
ZCMT	Acoustic Impedance of Cement	ASLT-B	6.8	Mrayl
ZCMT_NEAT	Acoustic Impedance of Cement in Neat Cement	ASLT-B	6.8	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.5	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.1	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	30	20.5	100
BS	17.25	100	1500
BS	12.25	1500	5500
BS	8.75	5500	8741.5

All depth are actual.

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
U-USIT_UFAO	-34.62	12-Feb-2023 14:00:09	12-Feb-2023 16:01:10	8742.51	893.17
U-USIT_UFAO	-47	12-Feb-2023 16:01:10	12-Feb-2023 16:02:02	893.17	836.47
U-USIT_UFAO	13	12-Feb-2023 16:02:02	12-Feb-2023 16:17:10	836.47	60.76

All depth are at tool zero.

Tool Control Parameters

6A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
DDE1	Digitizing Delay 1	ASLT-B	40	us
DDE2	Digitizing Delay 2	ASLT-B	40	us
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
DSIN	Digitizer Sample Interval	ASLT-B	10	us
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
GAI1	SSLT Manual Gain 1	ASLT-B	High	
GAI2	SSLT Manual Gain 2	ASLT-B	High	
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	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	4408.8	ft/h
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
RATE	Firing Rate	ASLT-B	12.5	Hz
SDTH	Switch Down Threshold	ASLT-B	29490	
SUTH	Switch Up Threshold	ASLT-B	3276	
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	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	110	12-Feb-2023 14:00:09	12-Feb-2023 15:00:15	8742.51	4902.04
EMXV	115	12-Feb-2023 15:00:15	12-Feb-2023 16:17:10	4902.04	60.76

All depth are at tool zero.

6A

IBC SLG Composite

Pass Summary	

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
6A	Main[5]:Up	Up	60.76 ft	8742.51 ft	12-Feb-2023 2:00:09 PM	12-Feb-2023 4:17:10 PM	ON	9.64 ft	Yes

All depths are referenced to toolstring zero

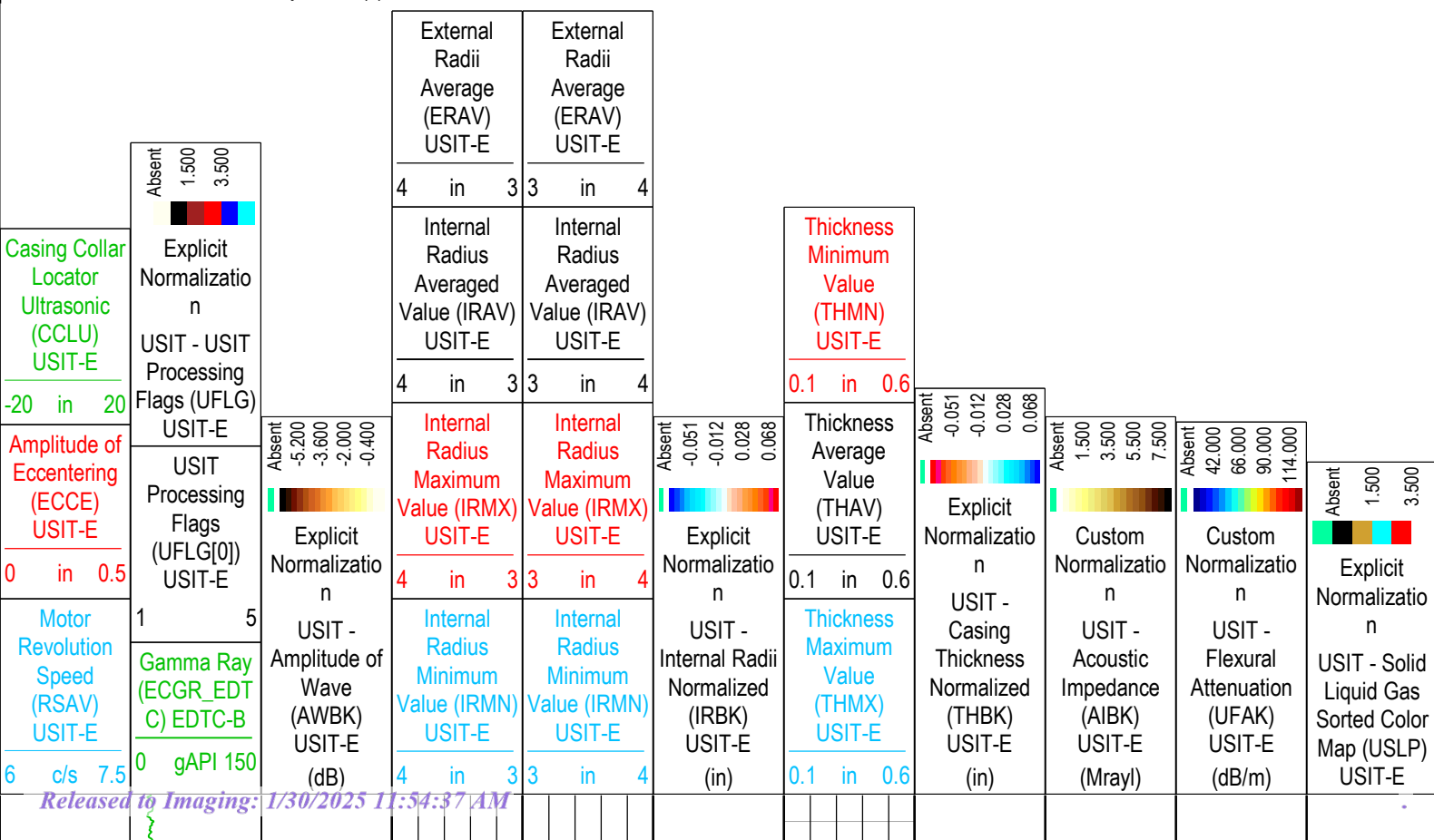
Log	Company:New Mexico Institute of Mining & Technology	Well:SJB Carbon Safe Strat Test #001
		6A: Main[5]:Up:S021

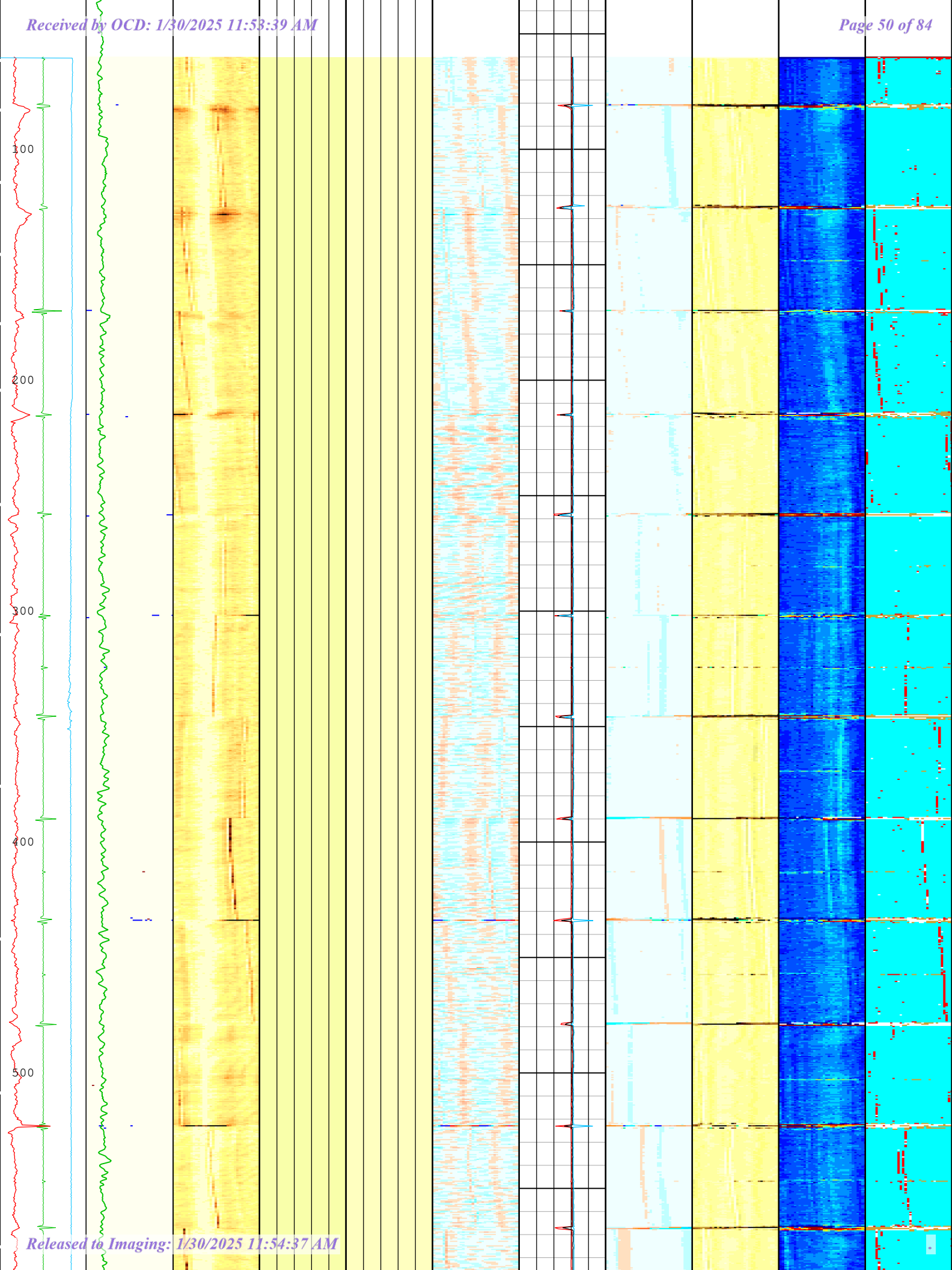
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Creation Date: 13-Feb-2023 01:18:19

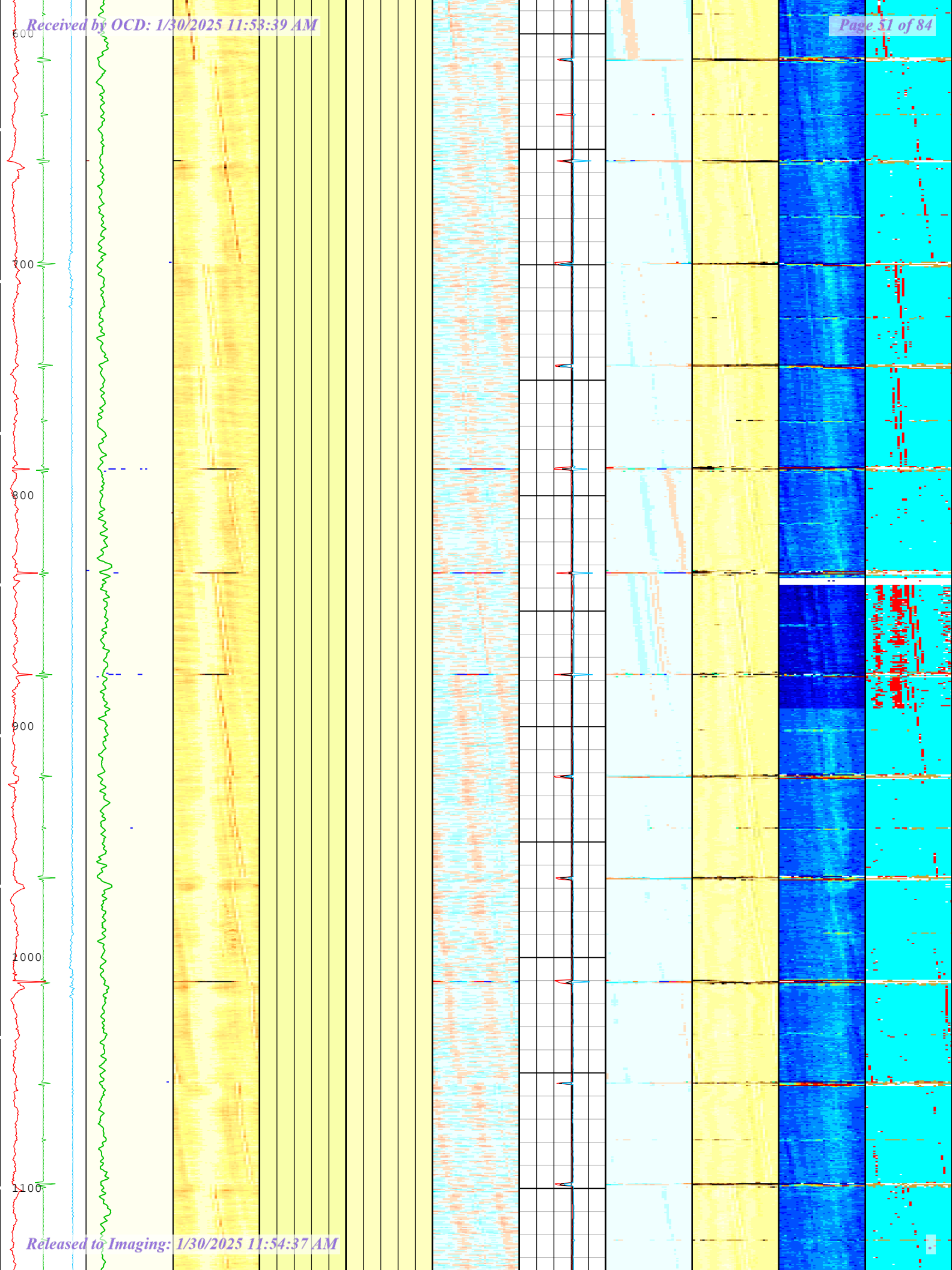
USIT Processing Flags (UFLG[0]) USIT-E

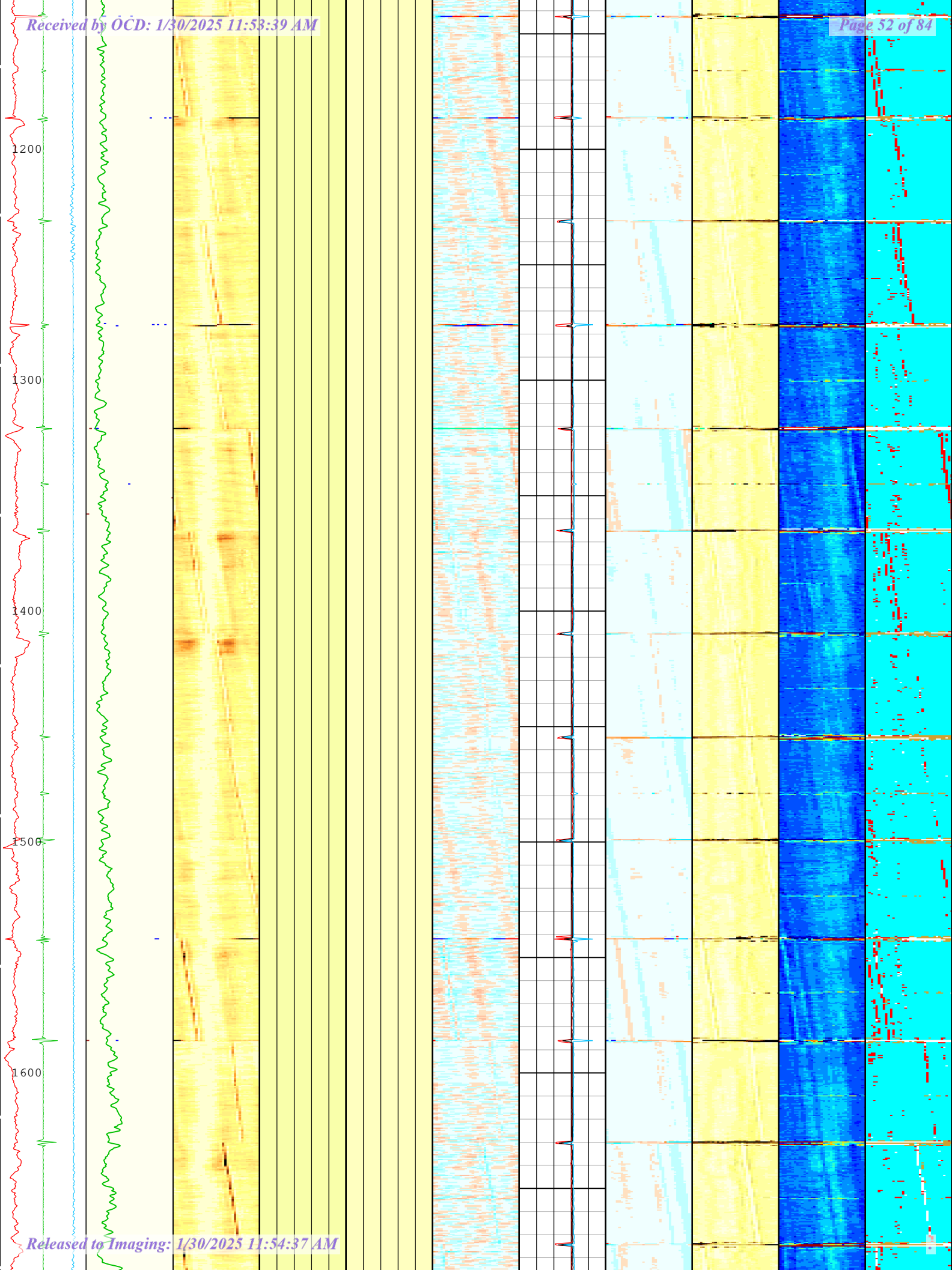
- | | |
|---|---|
| 1 - UFLG 1 Value within [0.0 - 1.5] - : |  UTIM Error |
| 2 - UFLG 2 Value within [1.5 - 2.5] - : |  Pulse Origin Not Detected |
| 3 - UFLG 3 Value within [2.5 - 3.5] - : |  WINLEN Error |
| 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : |  Casing Thickness Error |
| 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : |  Loop Processing Error |

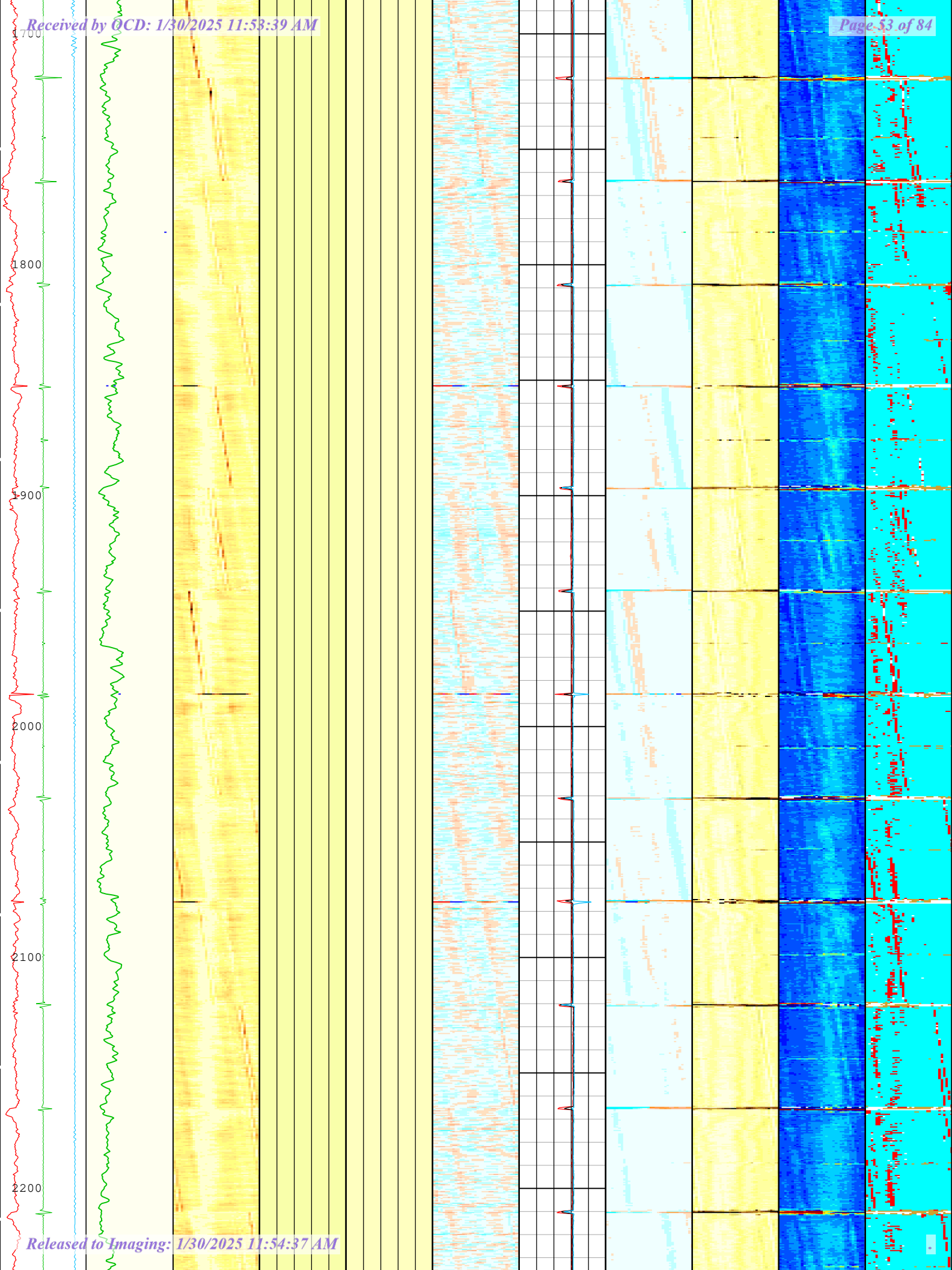
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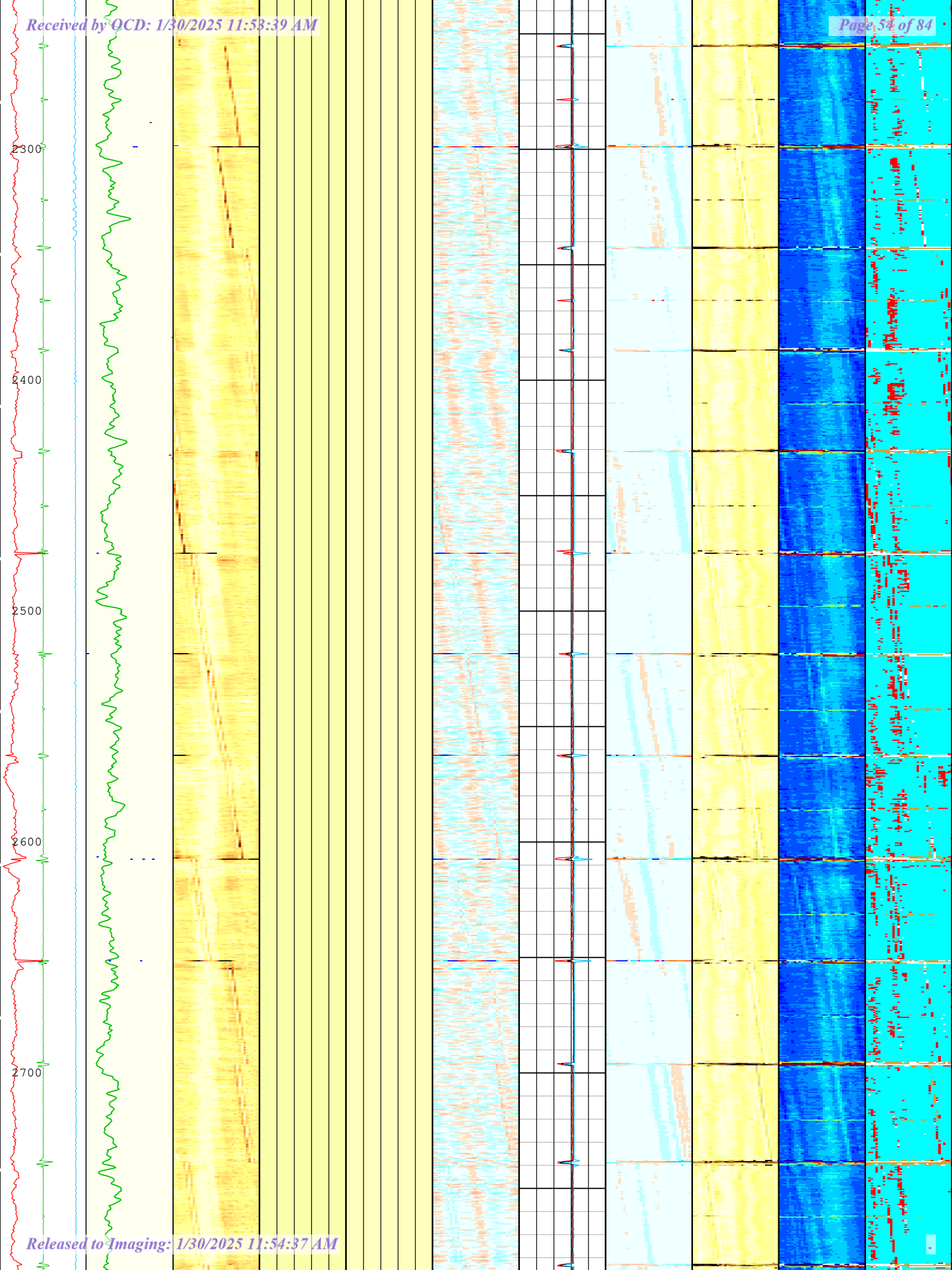


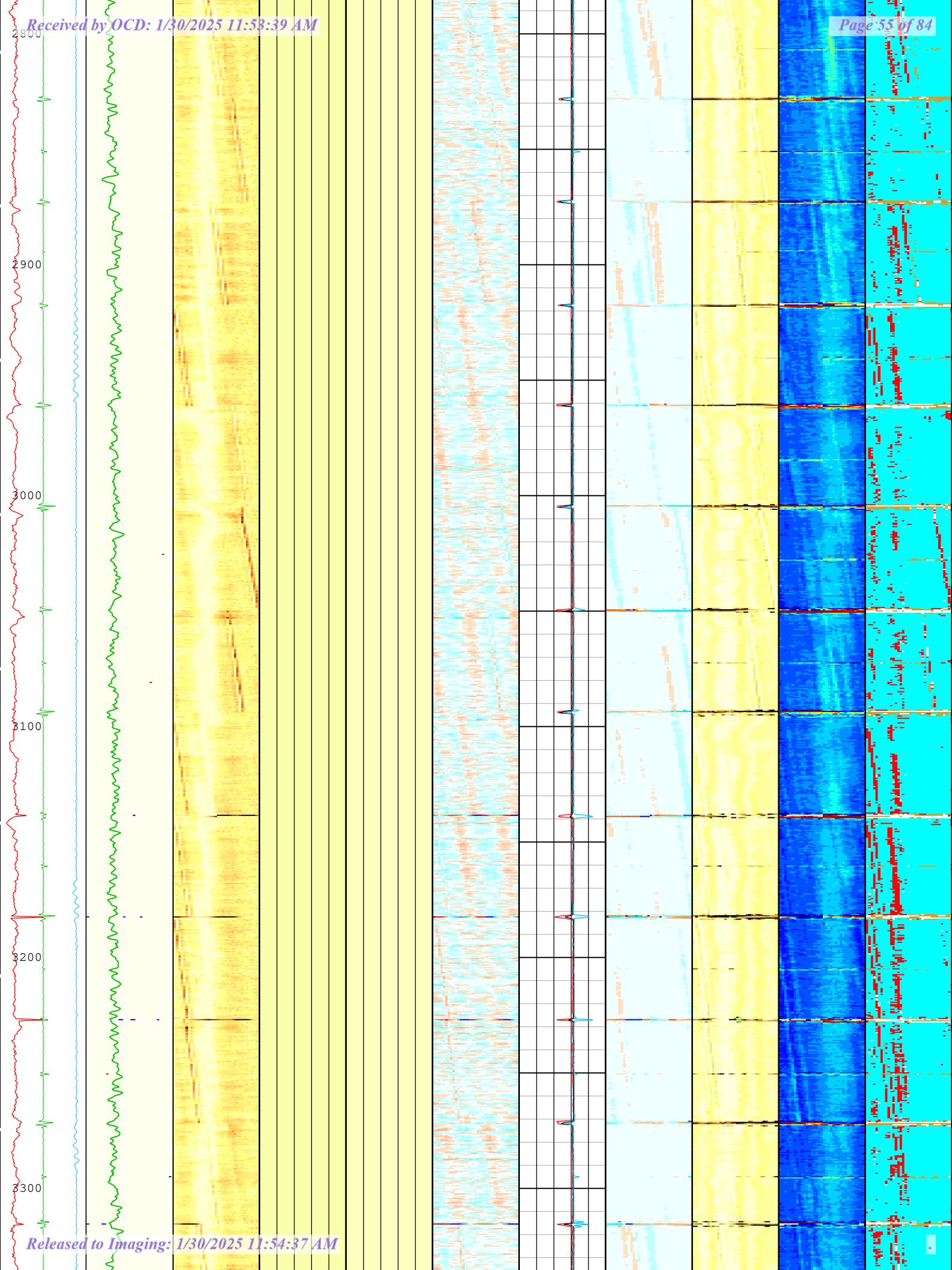


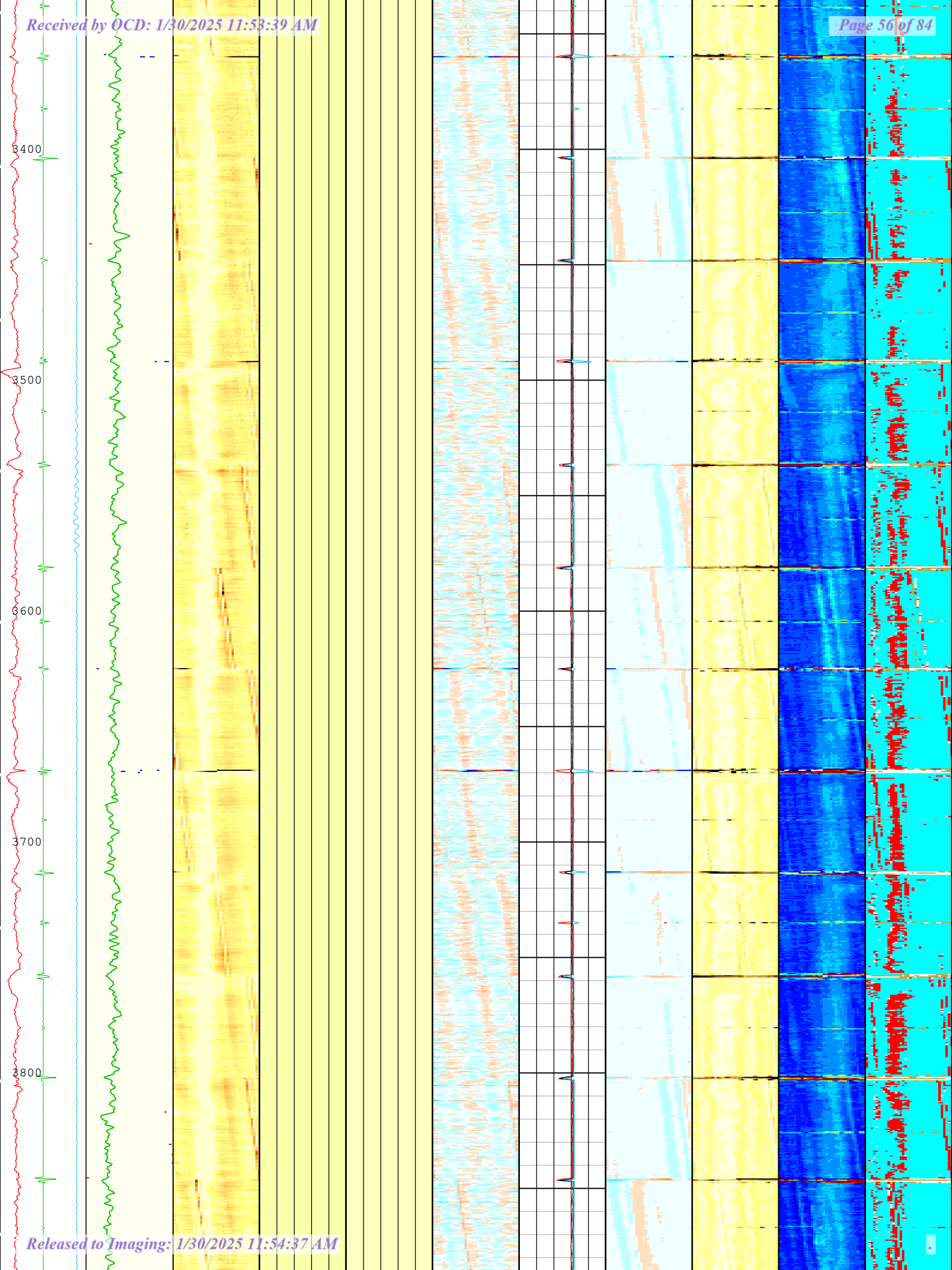


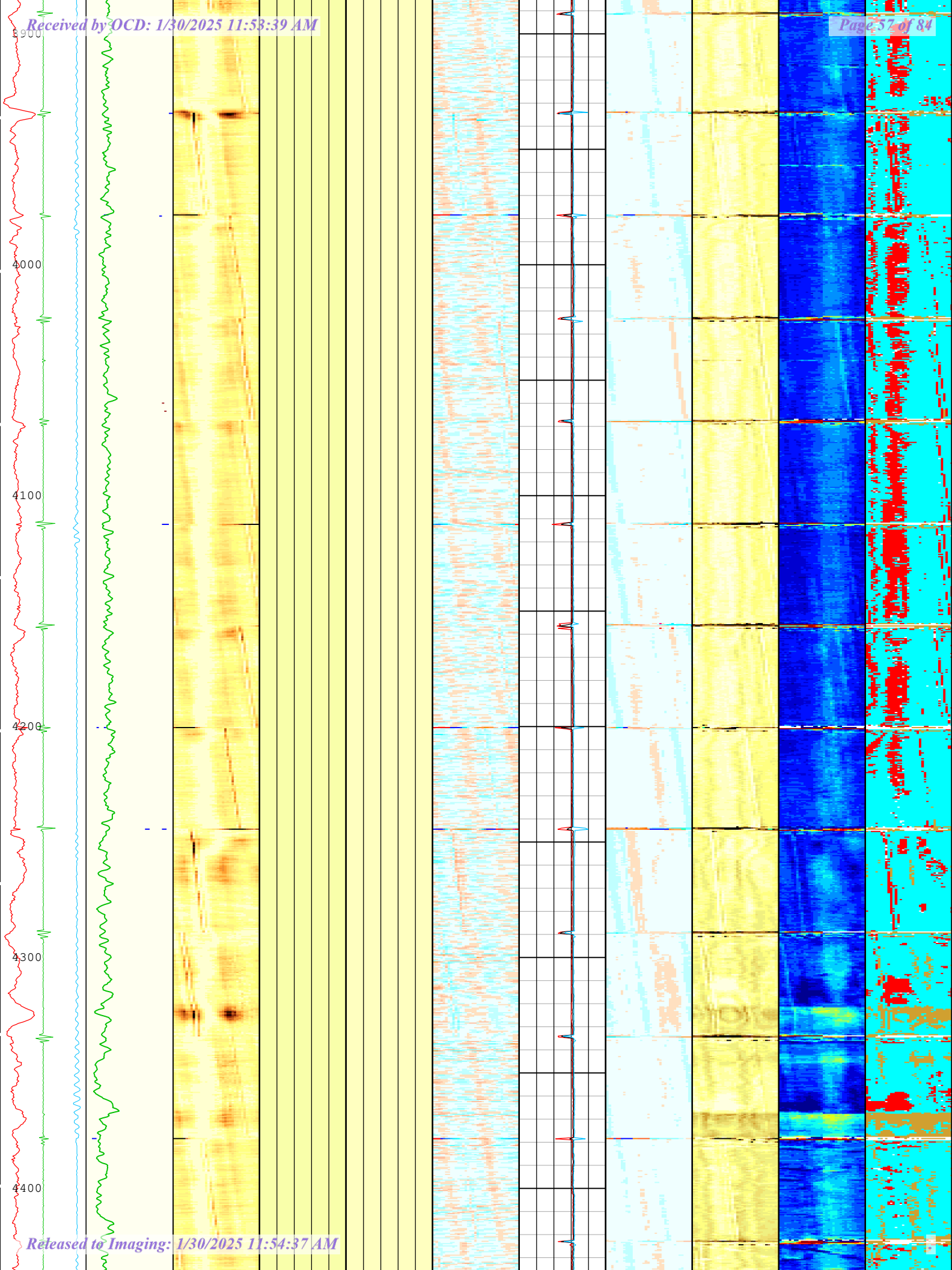


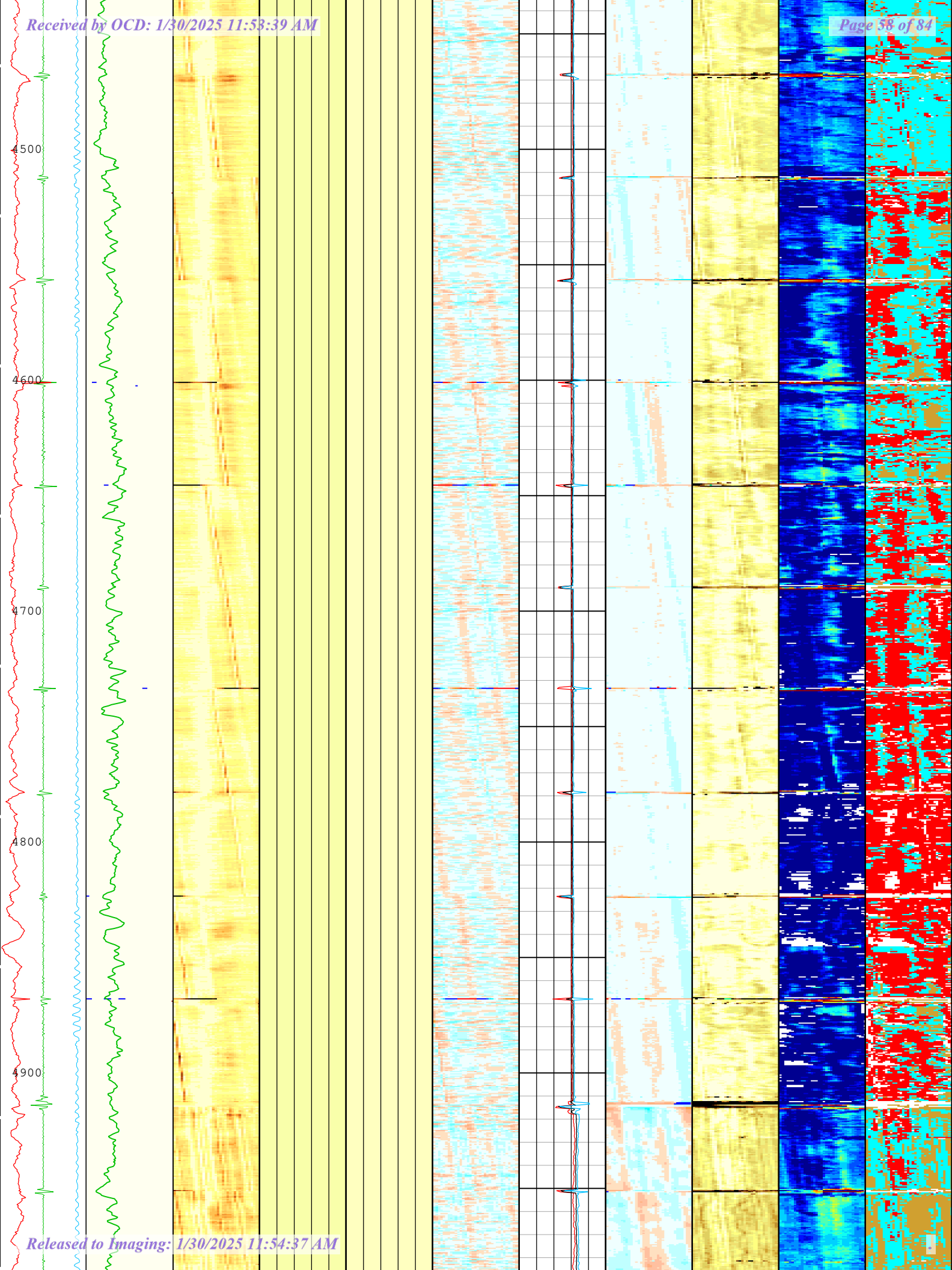


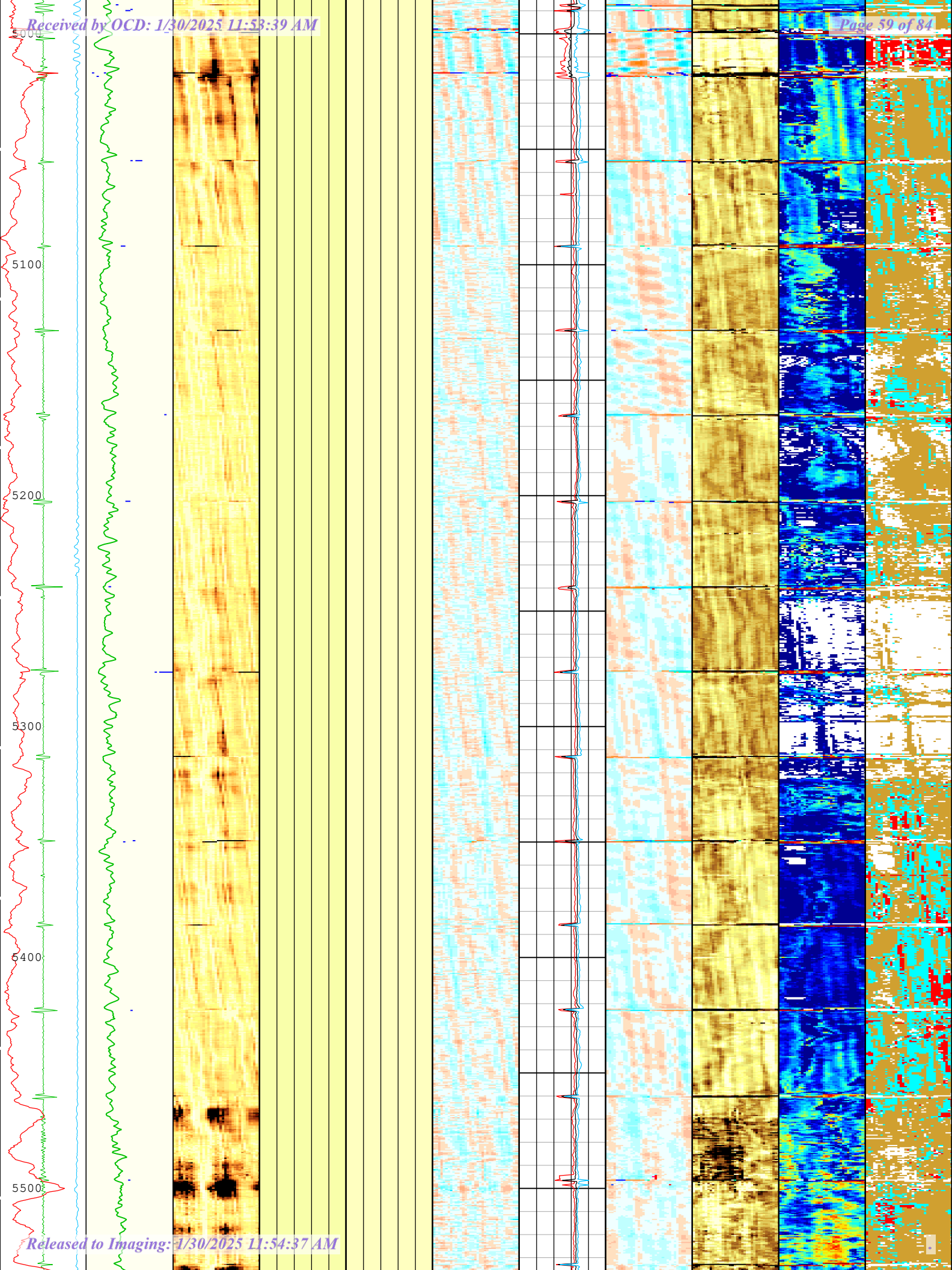


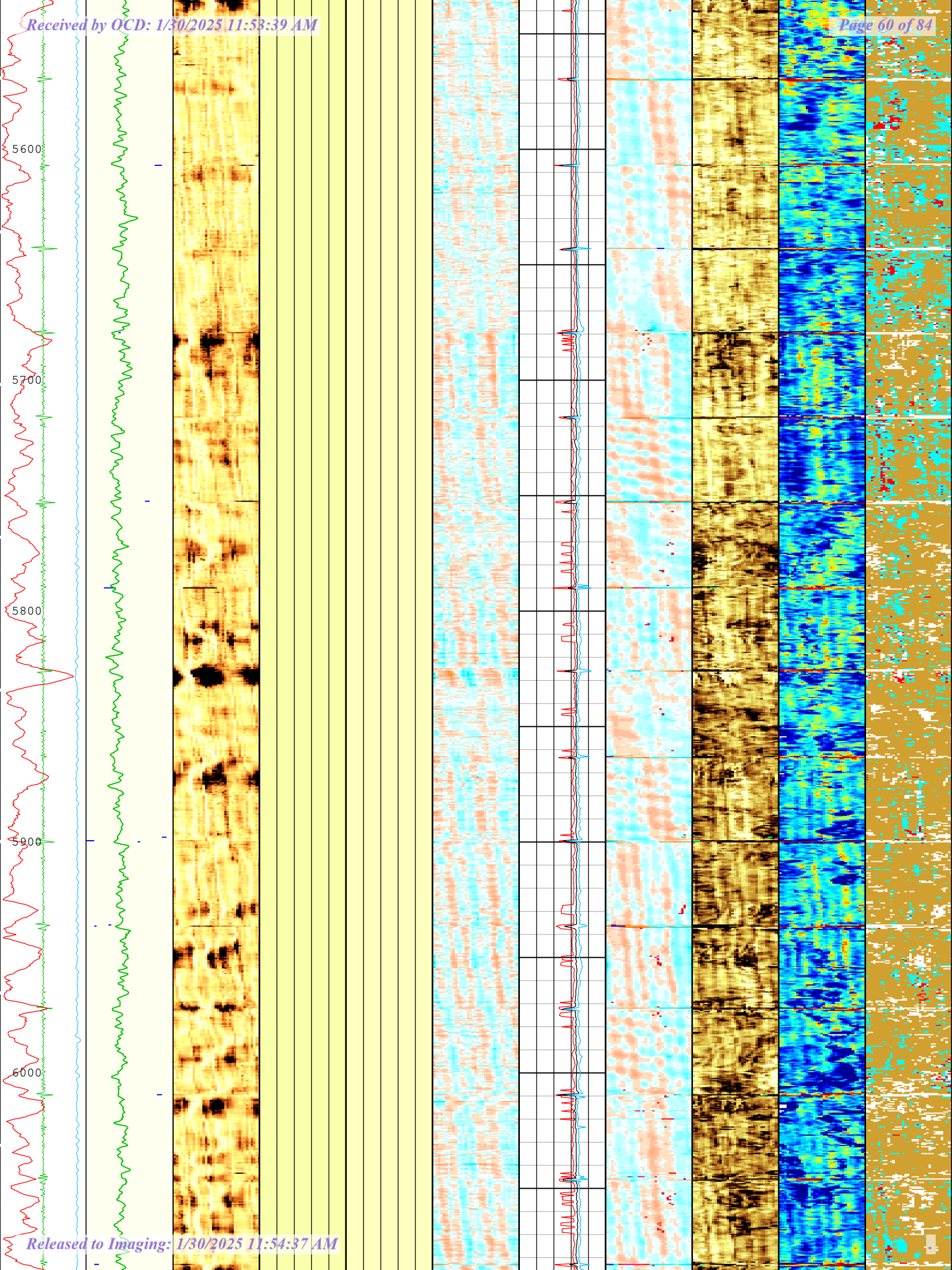


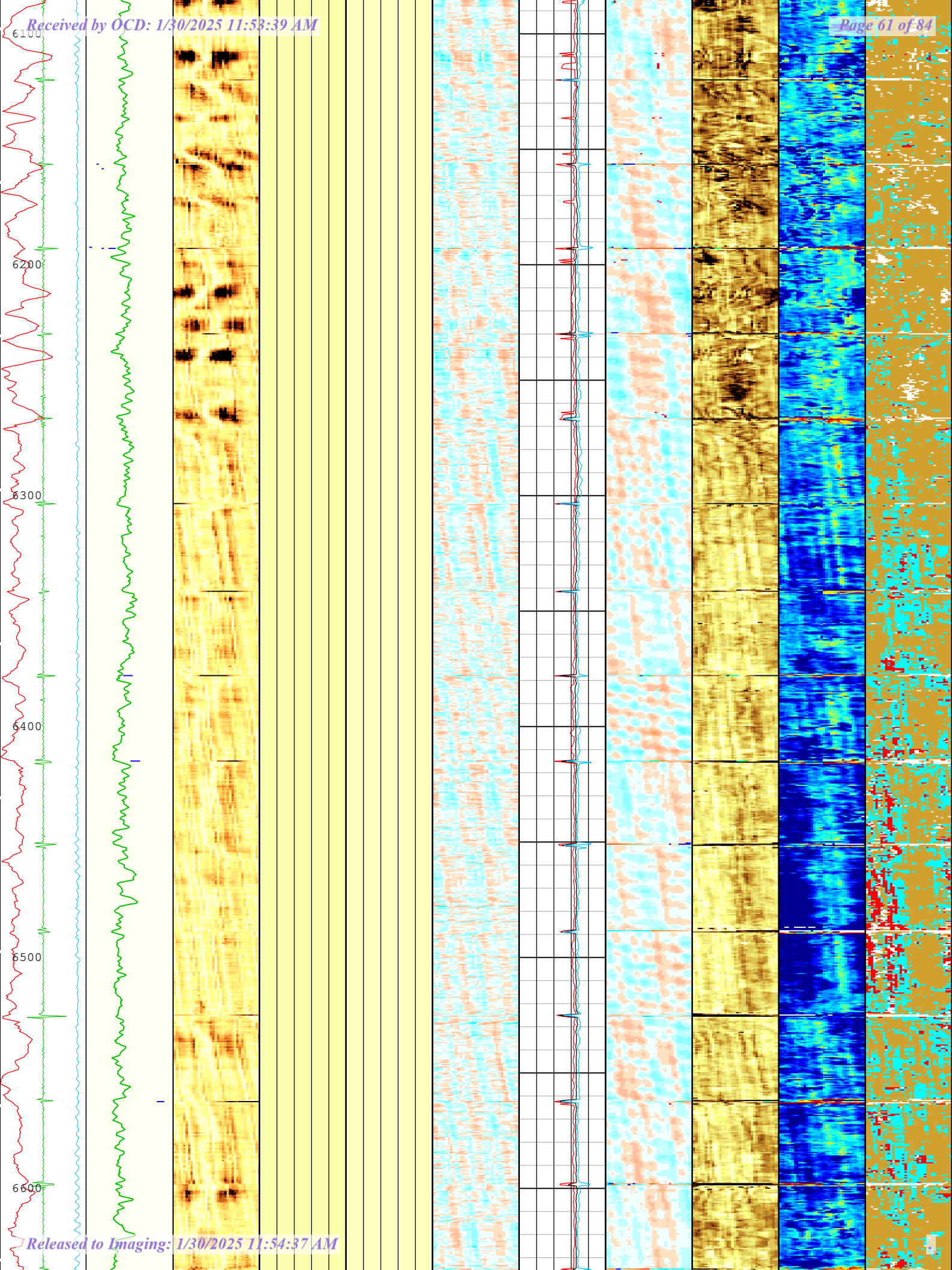


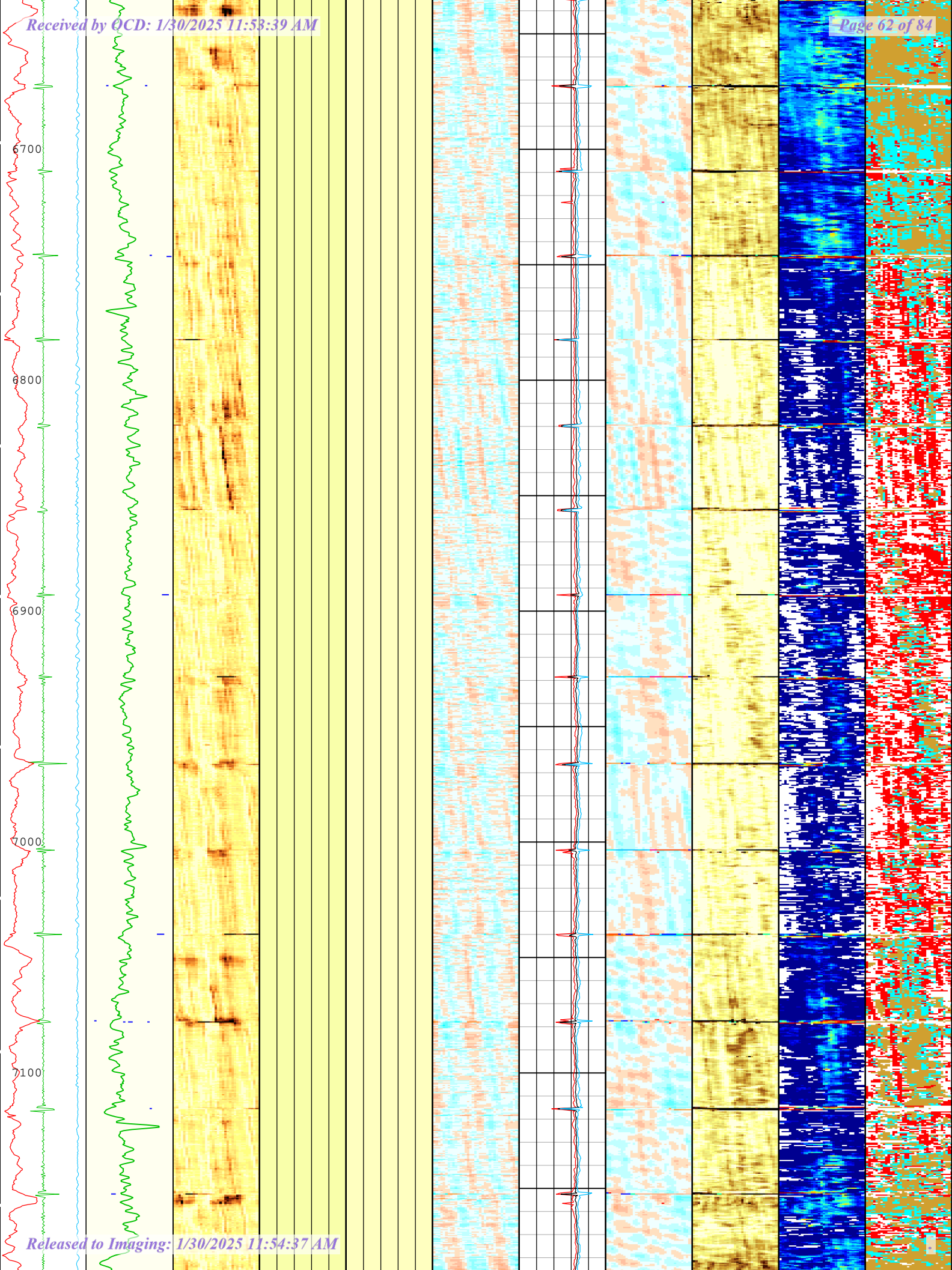


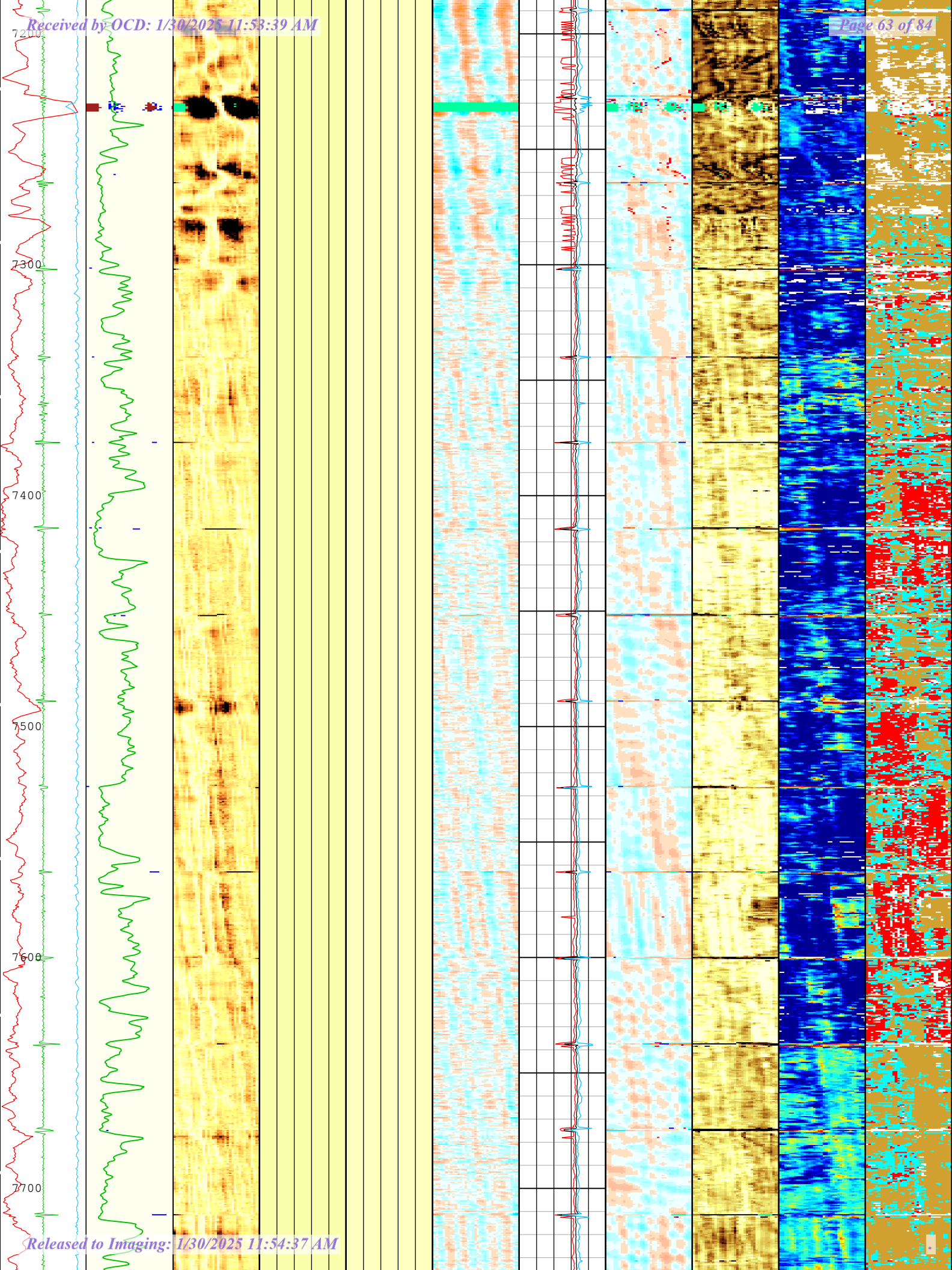


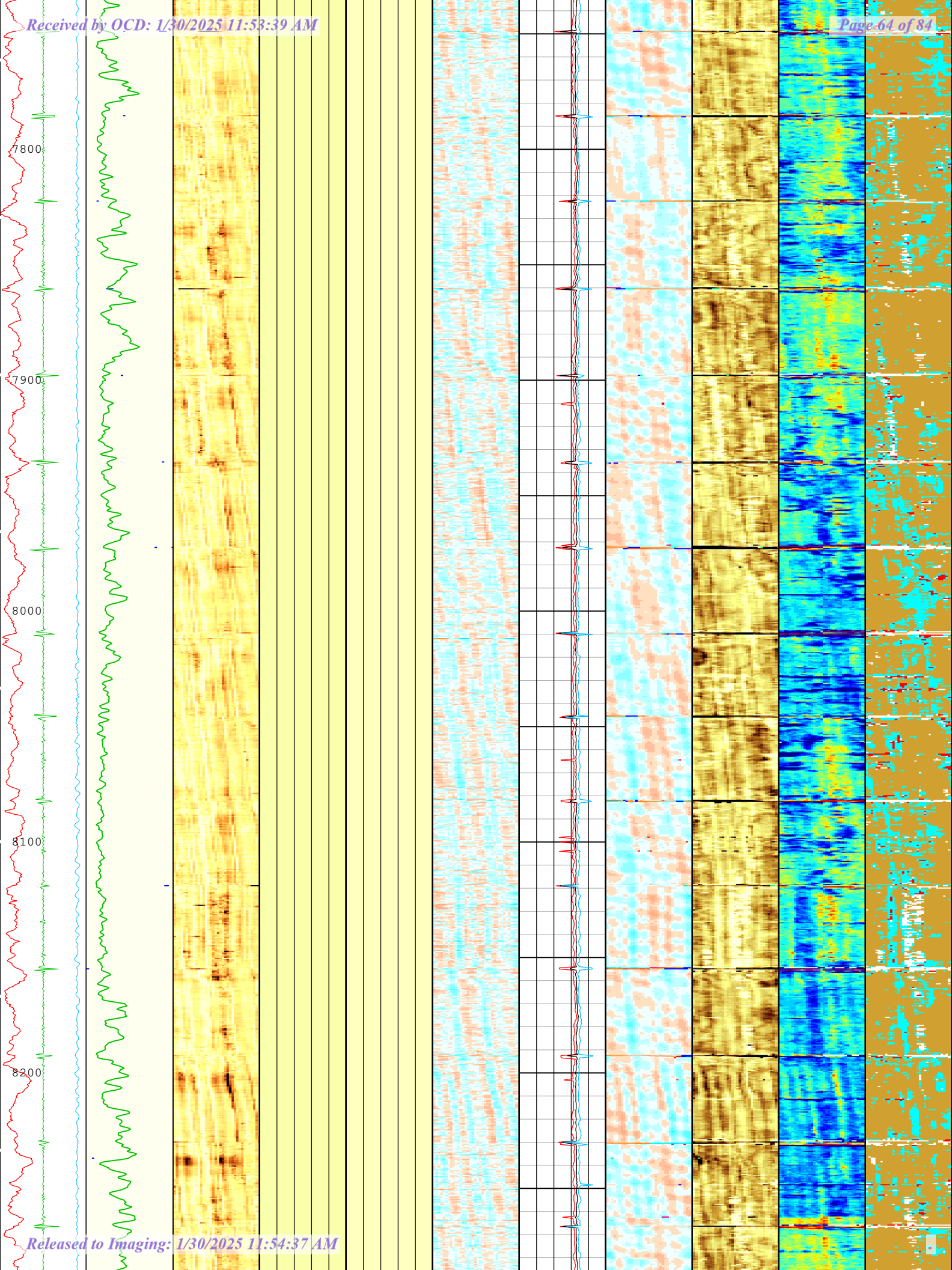


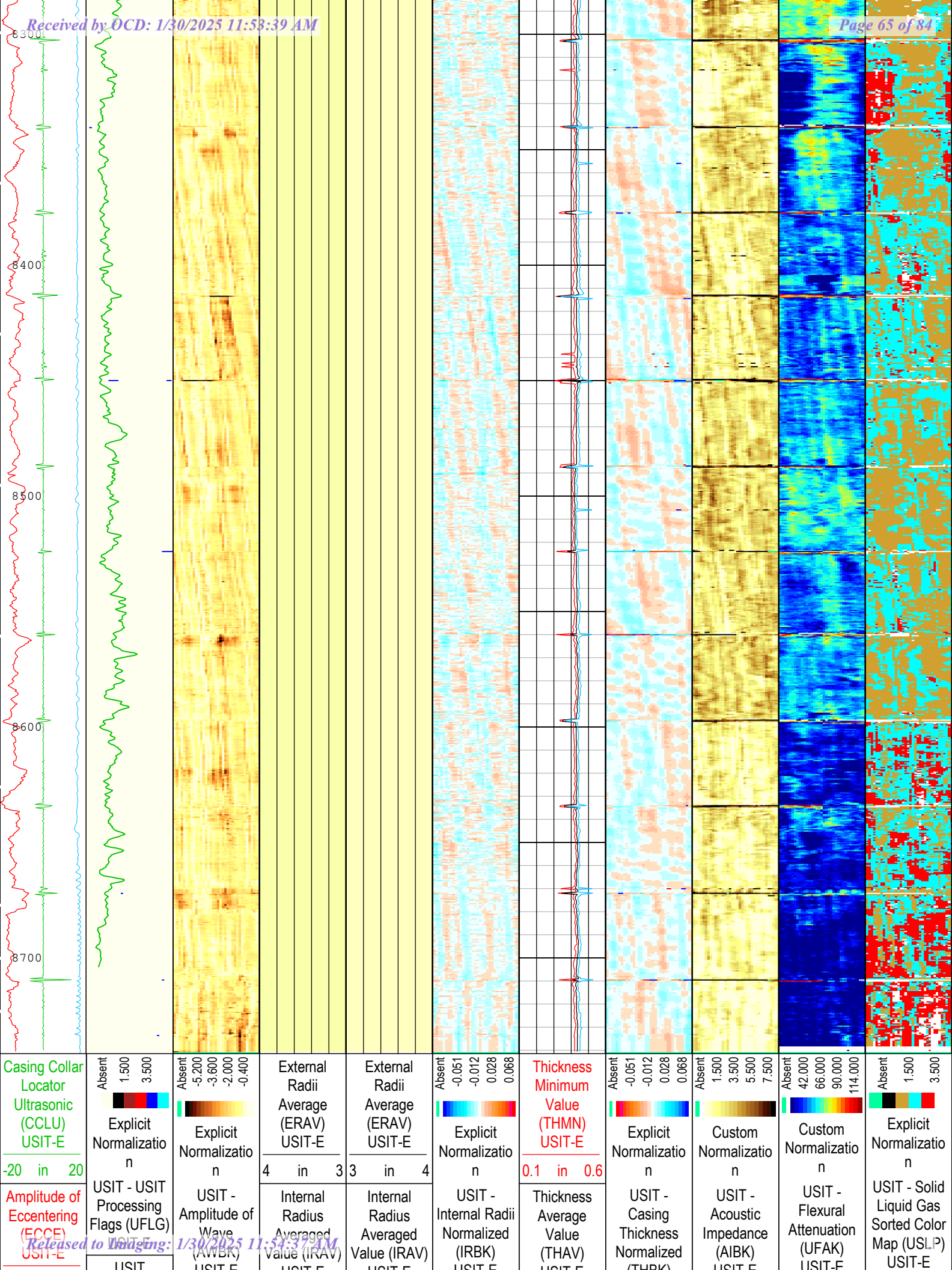












U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMLAS	Acoustic Impedance of Mud	Borehole	1.5	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.1	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	30	22.5	100	
BS	17.25	100	1500	
BS	12.25	1500	5500	
BS	8.75	5500	8741.5	
All depth are actual.				

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
U-USIT_UFAO	-34.62	12-Feb-2023 14:00:09	12-Feb-2023 16:01:10	8742.51	893.17
U-USIT_UFAO	-47	12-Feb-2023 16:01:10	12-Feb-2023 16:02:02	893.17	836.47
U-USIT_UFAO	13	12-Feb-2023 16:02:02	12-Feb-2023 16:17:10	836.47	60.76
All depth are at tool zero.					

Tool Control Parameters				
6A: 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	Time Zoned	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	

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	110	12-Feb-2023 14:00:09	12-Feb-2023 15:00:15	8742.51	4902.04
EMXV	115	12-Feb-2023 15:00:15	12-Feb-2023 16:17:10	4902.04	60.76
All depth are at tool zero.					

6A				

Software Version				
Acquisition System		Version		
Maxwell 2022.1		12.1.217729.3100		
Application Patch		Wireline_NPD-PLUGEM-2022.1_12.1.219531		
		Wireline_NPD-HFND-2022.1_12.1.219128		
		Wireline_Hotfix-Mandatory-2022.1_12.1.220287		

Pass Summary

Released to Imaging: 1/30/2025 11:54:37 AM

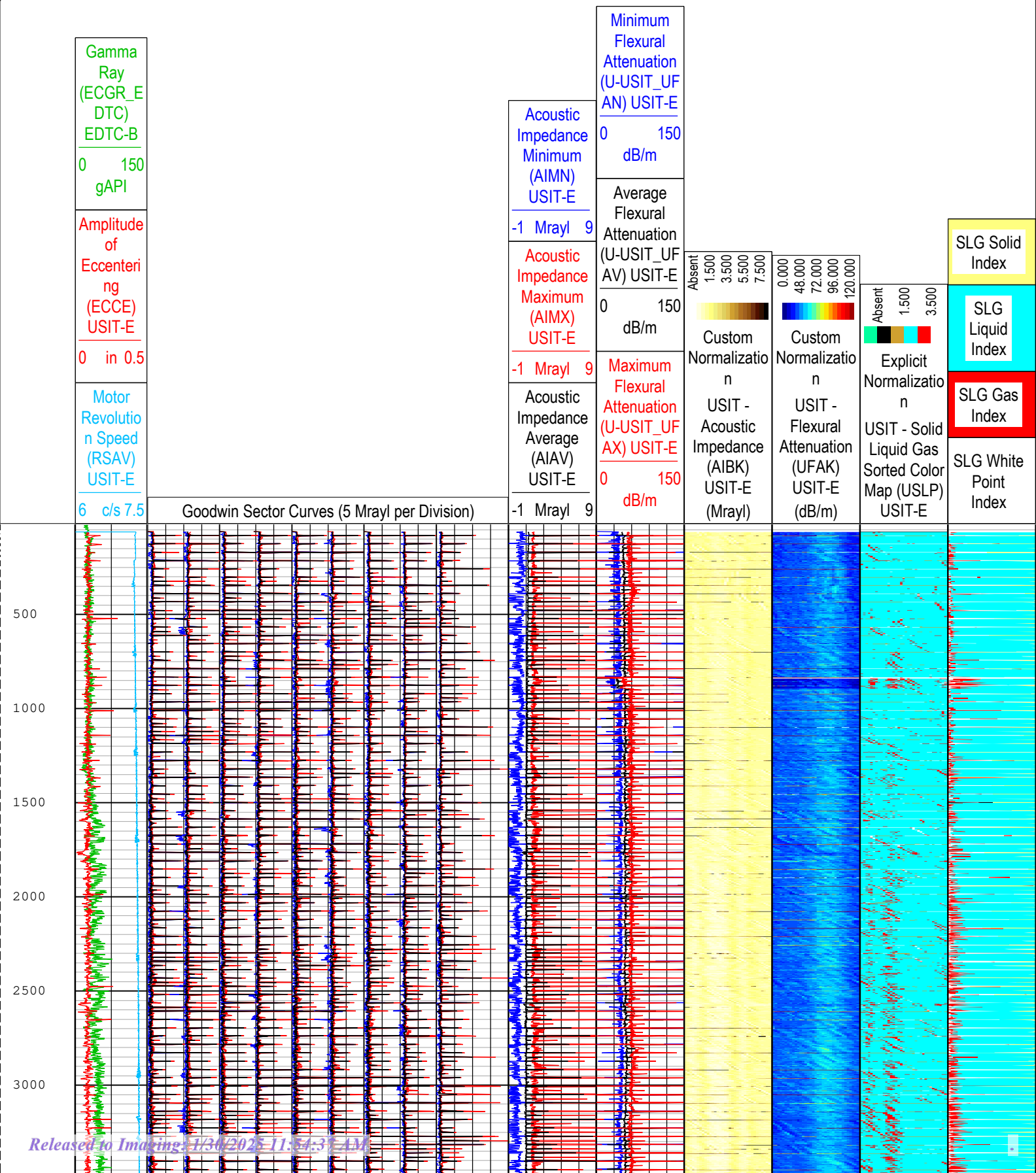
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
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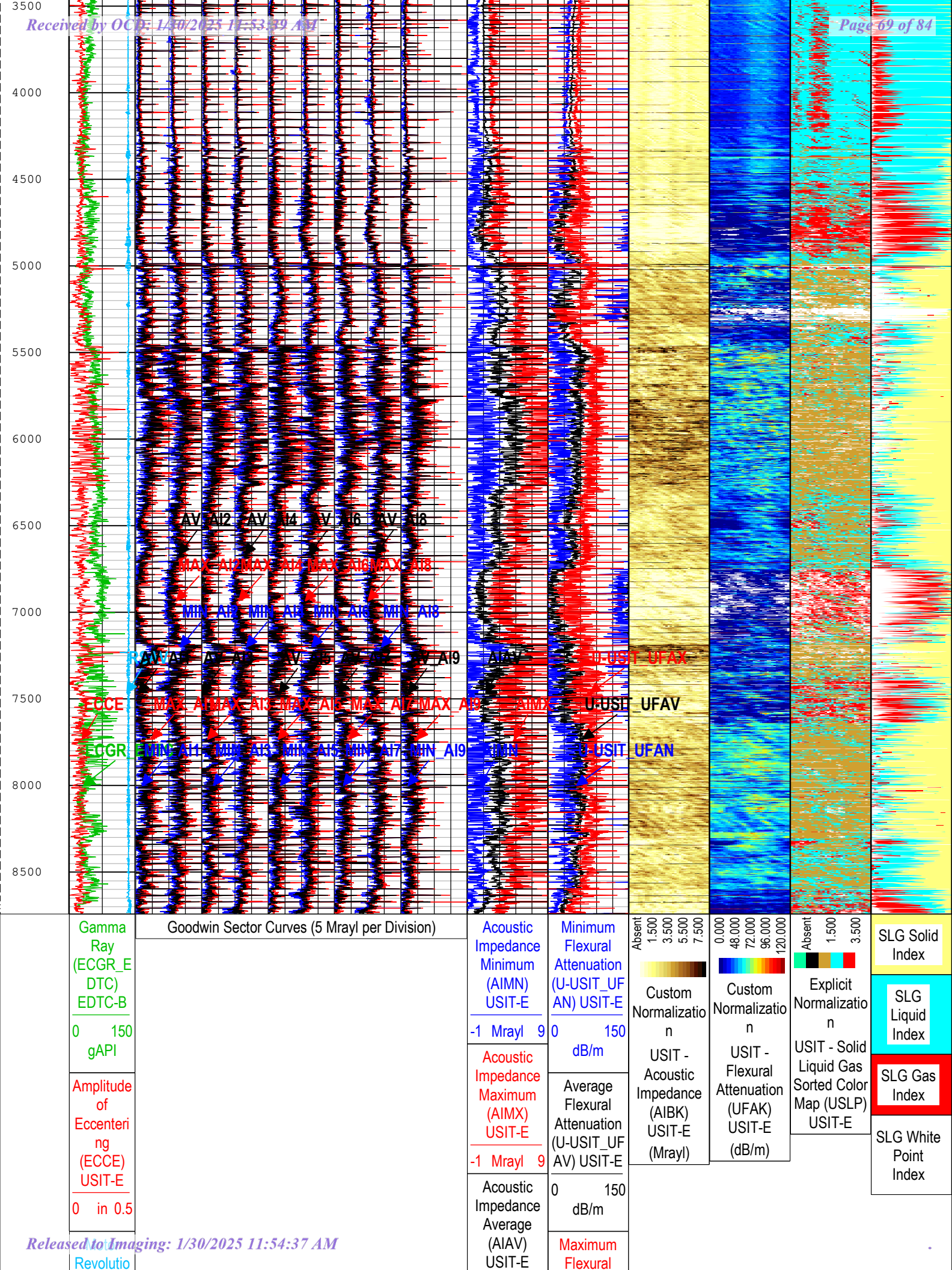
All depths are referenced to toolstring zero

Log	Company:New Mexico Institute of Mining & Technology	Well:SJB Carbon Safe Strat Test #001
		6A: Main[5]:Up:S021

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.15 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 13-Feb-2023 01:24:03

TIME_1900 - Time Marked every 60.00 (s)





TIME_1900 - Time Marked every 60.00 (s)

Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.15 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 13-Feb-2023 01:24:03

Channel Processing Parameters

6A: 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	8800	ft
CDEN	Cement Density	USIT-E	10.01	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	8.7	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.61	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	-33.35	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	Manual	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.94	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.06	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.07	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.58	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	Time Zoned	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	1.5	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.1	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	30	22.5	100
BS	17.25	100	1500
BS	12.25	1500	5500
BS	8.75	5500	8741.5

All depth are actual.

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
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U-USIT_UFAO	34.62	12-Feb-2023 14:00:09	12-Feb-2023 16:01:10	8742.51	893.17
U-USIT_UFAO	-47	12-Feb-2023 16:01:10	12-Feb-2023 16:02:02	893.17	836.47
U-USIT_UFAO	13	12-Feb-2023 16:02:02	12-Feb-2023 16:17:10	836.47	60.76

All depth are at tool zero.

Tool Control Parameters

6A: 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	Time Zoned	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	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	110	12-Feb-2023 14:00:09	12-Feb-2023 15:00:15	8742.51	4902.04
EMXV	115	12-Feb-2023 15:00:15	12-Feb-2023 16:17:10	4902.04	60.76

All depth are at tool zero.

6A

IBC SLG

Software Version

Acquisition System	Version
Maxwell 2022.1	12.1.217729.3100
Application Patch	Wireline_NPD-PLUGEM-2022.1_12.1.219531
	Wireline_NPD-HFND-2022.1_12.1.219128
	Wireline_Hotfix-Mandatory-2022.1_12.1.220287

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
6A	Repeat[4]:Up	Up	8308.79 ft	8744.87 ft	12-Feb-2023 1:39:45 PM	12-Feb-2023 1:46:56 PM	ON	9.56 ft	Yes

All depths are referenced to toolstring zero

Log	Company:New Mexico Institute of Mining & Technology	Well:SJB Carbon Safe Strat Test #001
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6A: Repeat[4]:Up:S021

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 13-Feb-2023 01:26:09

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

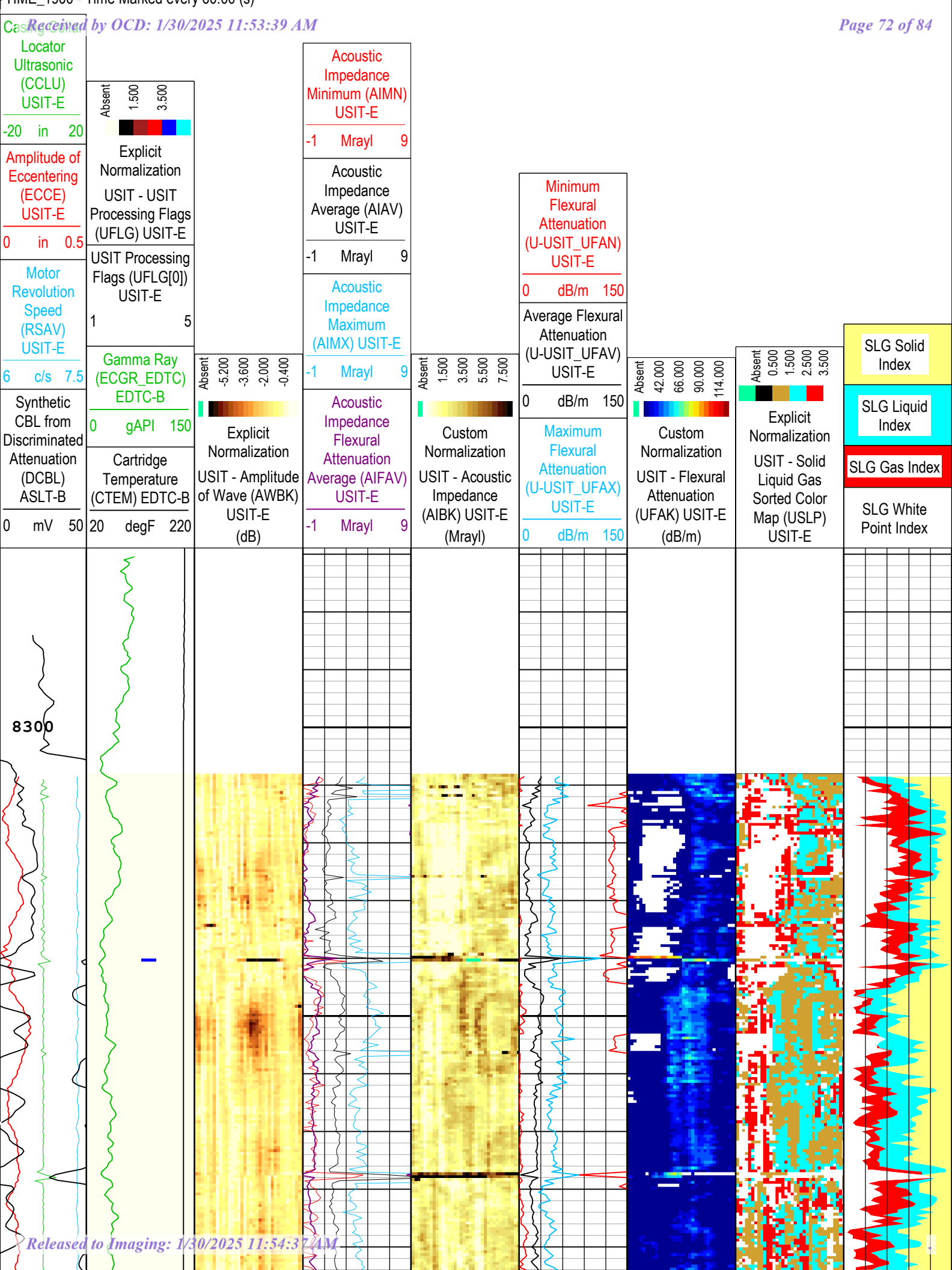
- 1 - UFLG 1 Value within [0.0 - 1.5] - :
- 2 - UFLG 2 Value within [1.5 - 2.5] - :
- 3 - UFLG 3 Value within [2.5 - 3.5] - :
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10.1] - :

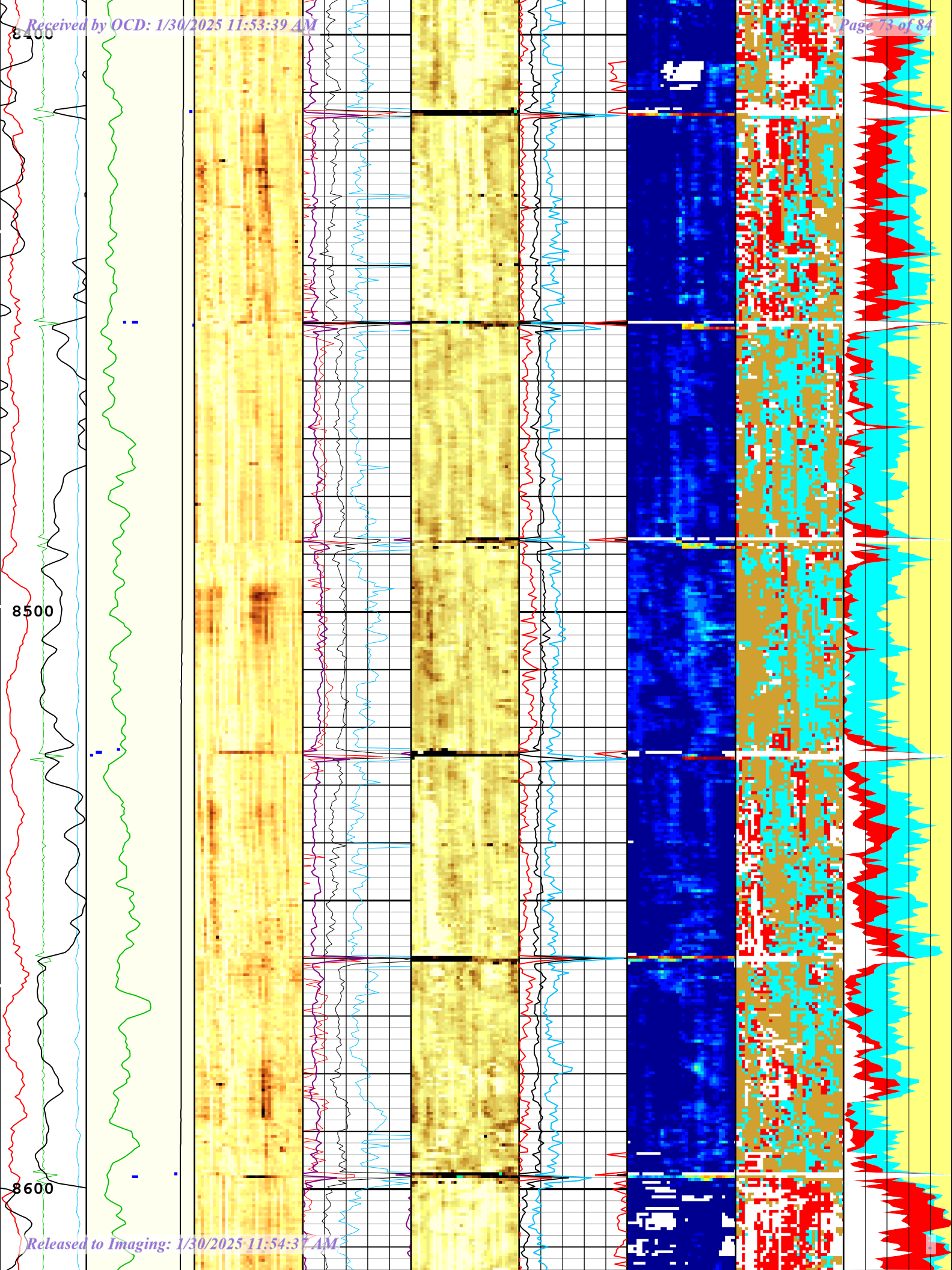
- UTIM Error
- Pulse Origin Not Detected
- WINLEN Error
- Casing Thickness Error
- Loop Processing Error

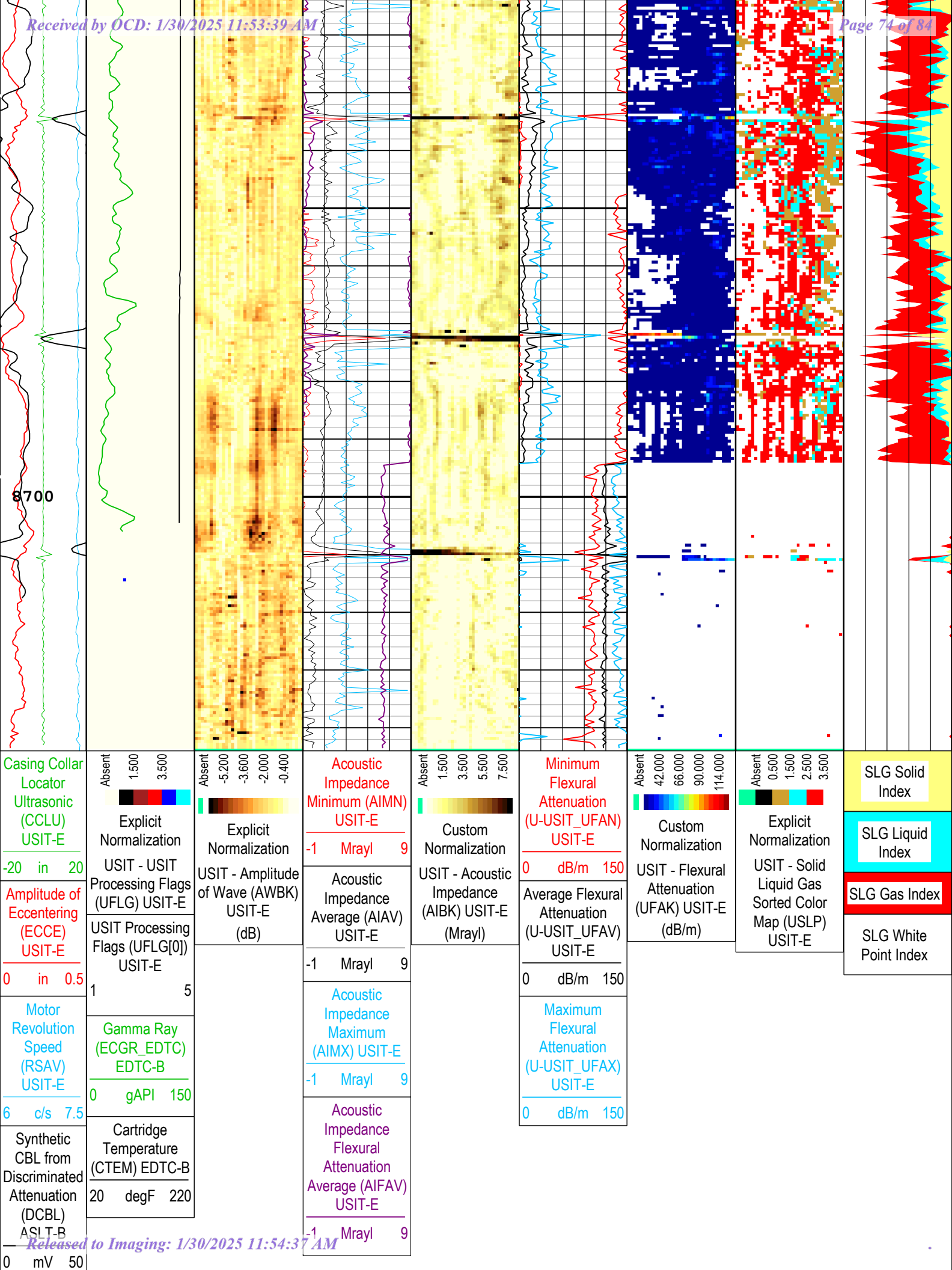
TIME 1900 - Time Marked every 60.00 (s)

Released to Imaging: 1/30/2025 11:54:37 AM

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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: 13-Feb-2023 01:26:09

Channel Processing Parameters

6A: 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	8.75	in
CASING_PRATIO	Casing Poisson Ratio	USIT-E	Standard Poisson Ratio	
CBLO	Casing Bottom (Logger)	WLSESSION	8800	ft
CBRA	CBL LQC Reference Amplitude in Free Pipe	ASLT-B	73	mV
CDEN	Cement Density	USIT-E	10.01	lbm/gal
CDEN	Cement Density	EDTC-B	16.69	lbm/gal
CMTY(U-USIT_CEMT)	Cement Type	USIT-E	Regular Cement	
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.415	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFAD	Slim Sonic DFAD Computation Control	ASLT-B	Downhole	
DFD	Drilling Fluid Density	Borehole	8.7	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.61	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)	
GOBO_CURR	Good Bond in Arbitrary Cement	ASLT-B	6.28	mV
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	-33.35	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	Manual	
IMAR	Image Rotation	USIT-E	Off	
MATT	Maximum Attenuation	ASLT-B	34.22	dB/m
MATT_CURR	Maximum Attenuation in Arbitrary Cement	ASLT-B	34.22	dB/m
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.94	us
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	ASLT-B	3.4	mV
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.06	
MUD_N_THF	Free Pipe Mud Normalization Factor	USIT-E	1.07	
NFPI L5	Near Free Pipe Sonic Amplitude for Lower Transmitter -	ASLT-B	0	

	Receiver 5			
NFP	Free Pipe Sonic Amplitude for Upper Transmitter - Receiver 1	ASLT-B	0	
R42R	R4 to R2 Sensitivity Ratio	ASLT-B	0	dB/m
RCOD	Reference Calibrator Outer Diameter	USIT-E	4.5	in
RCSO	Reference Calibrator Standoff	USIT-E	0.842	in
RCTH	Reference Calibrator Thickness	USIT-E	0.216	in
RPLUS_PROCESS	Ultrasonic R+ Processing	USIT-E	No	
SALL	Sonic Amplitude Lower Limit	ASLT-B	20	mV
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	1.58	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-34.62	dB/m
UFSFILT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ULTR	Upper to Lower Transmitter Power Ratio	ASLT-B	0	dB/m
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
ZCMT	Acoustic Impedance of Cement	ASLT-B	6.8	Mrayl
ZCMT_NEAT	Acoustic Impedance of Cement in Neat Cement	ASLT-B	6.8	Mrayl
ZINI	Initial Estimate of Cement Impedance	USIT-E	-1	Mrayl
ZMUD	Acoustic Impedance of Mud	Borehole	1.5	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.1	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

6A: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	54	dB
DDE1	Digitizing Delay 1	ASLT-B	40	us
DDE2	Digitizing Delay 2	ASLT-B	40	us
U-USIT_DDT5	USIC Downhole Decimation for T5 only	USIT-E	0_NONE	
DOT(DOS)	Distance between Opposite Transducer Faces	USIT-E	1.756	in
DSIN	Digitizer Sample Interval	ASLT-B	10	us
EMXV	EMEX Voltage	USIT-E	Time Zoned	V
GAI1	SSLT Manual Gain 1	ASLT-B	High	
GAI2	SSLT Manual Gain 2	ASLT-B	High	
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	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	4408.8	ft/h
MODE	SSLT Firing Mode	ASLT-B	Attenuation	
MOTOR_PROTECT	Motor Protection	USIT-E	On	
RATE	Firing Rate	ASLT-B	12.5	Hz
SDTH	Switch Down Threshold	ASLT-B	29490	
SDTH	Switch Down Threshold	ASLT-B	29490	

SUTH	Switch Up Threshold	ASLT-B	3276	
UACLV_TERM	Ultrasonic AGLV 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	
VDM	SSLT VDL Display Mode	ASLT-B	R5	
VRES	Vertical Resolution	USIT-E	6.0 in	

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
EMXV	50	12-Feb-2023 13:39:45	12-Feb-2023 13:40:59	8744.87	8697.28
EMXV	70	12-Feb-2023 13:40:59	12-Feb-2023 13:41:05	8697.28	8690.02
EMXV	95	12-Feb-2023 13:41:05	12-Feb-2023 13:41:15	8690.02	8679.35
EMXV	100	12-Feb-2023 13:41:15	12-Feb-2023 13:41:23	8679.35	8670.26
EMXV	110	12-Feb-2023 13:41:23	12-Feb-2023 13:46:56	8670.26	8308.79
All depth are at tool zero.					

6A					
IBC SLG Composite					

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
6A	Repeat[4]:Up	Up	8308.79 ft	8744.87 ft	12-Feb-2023 1:39:45 PM	12-Feb-2023 1:46:56 PM	ON	9.56 ft	Yes
All depths are referenced to toolstring zero									

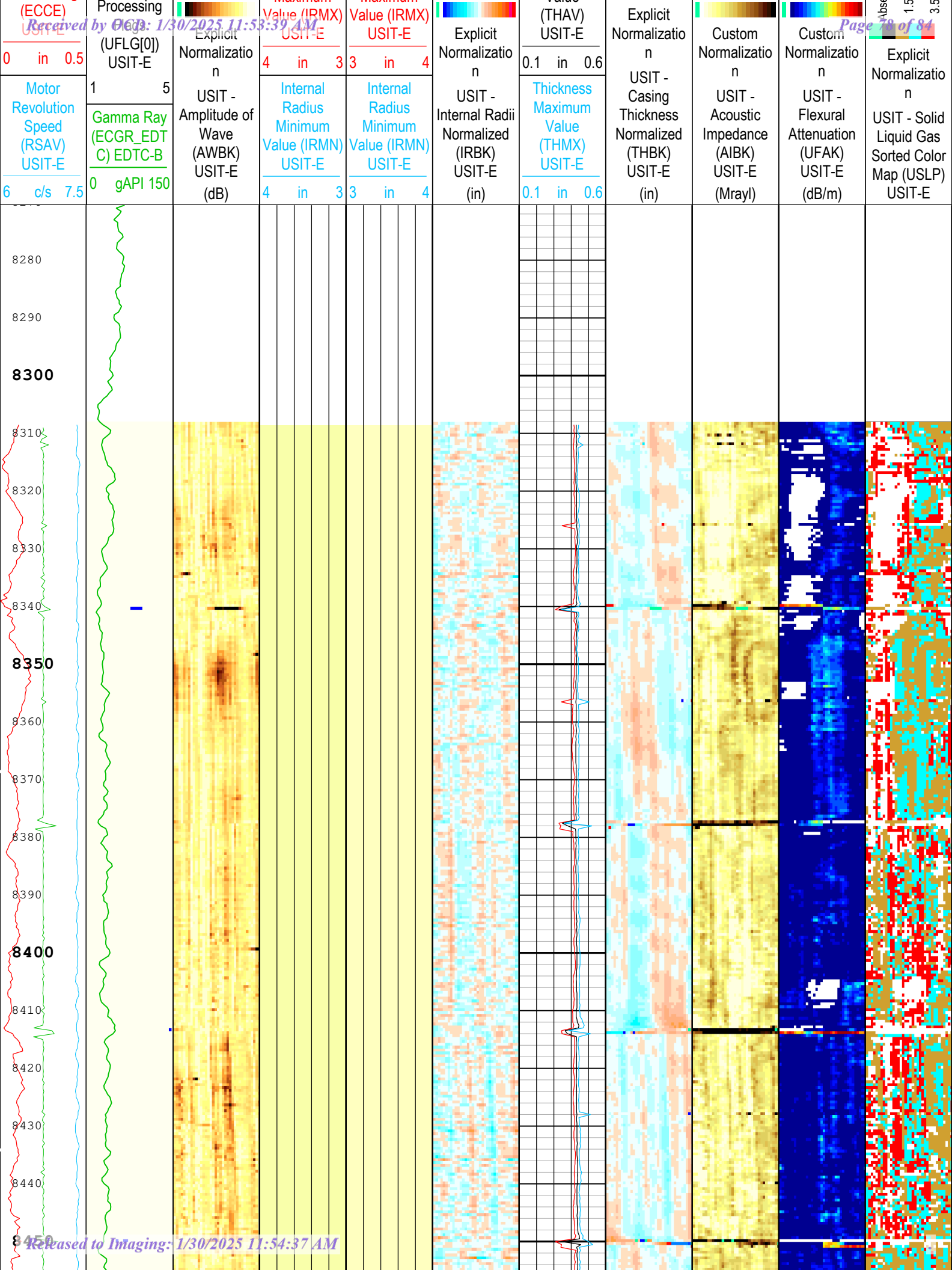
All depths are referenced to toolstring zero									
Log	Company:New Mexico Institute of Mining & Technology					Well:SJB Carbon Safe Strat Test #001			
	6A: Repeat[4]:Up:S021								

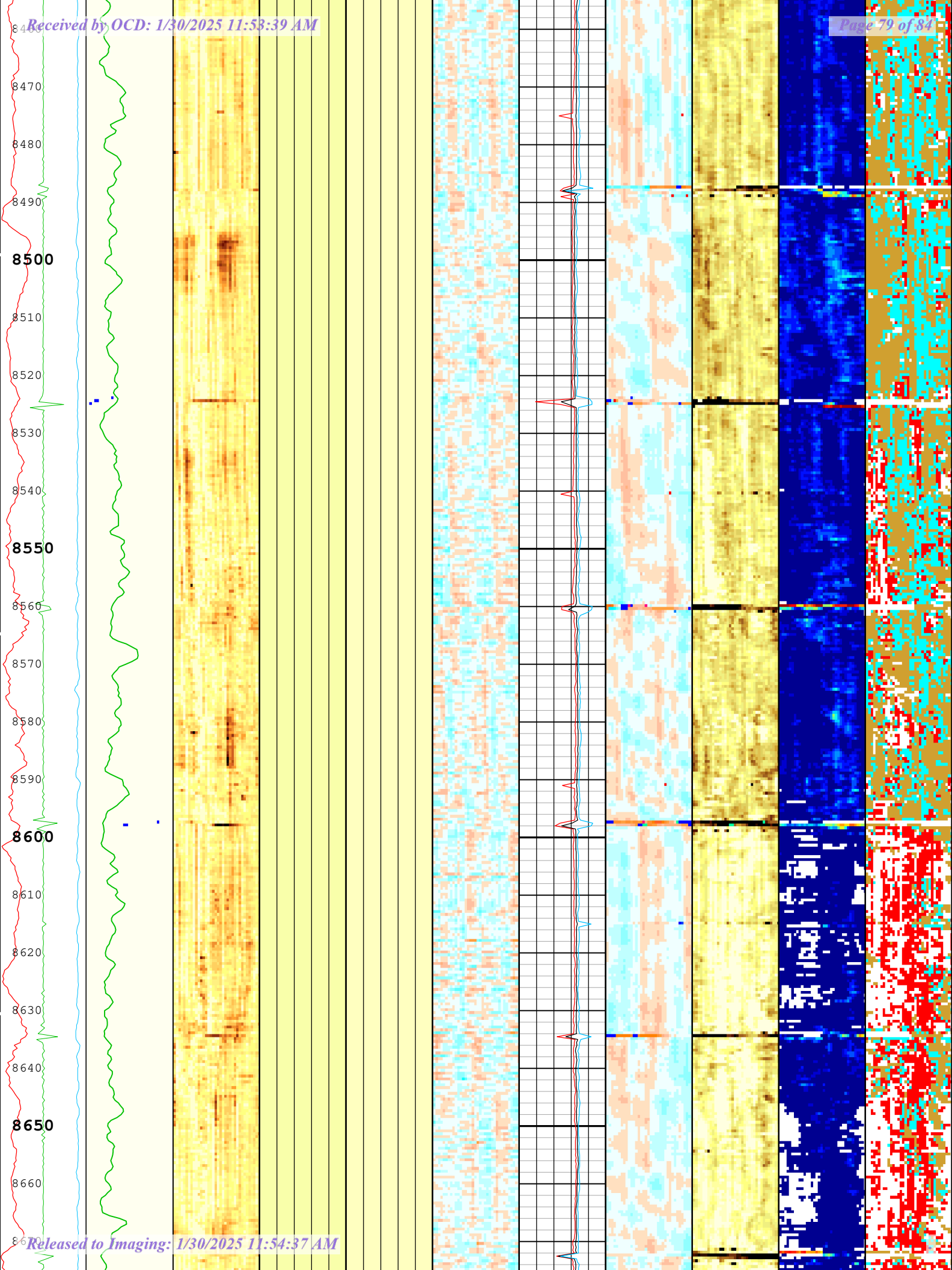
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 13-Feb-2023 01:27:16

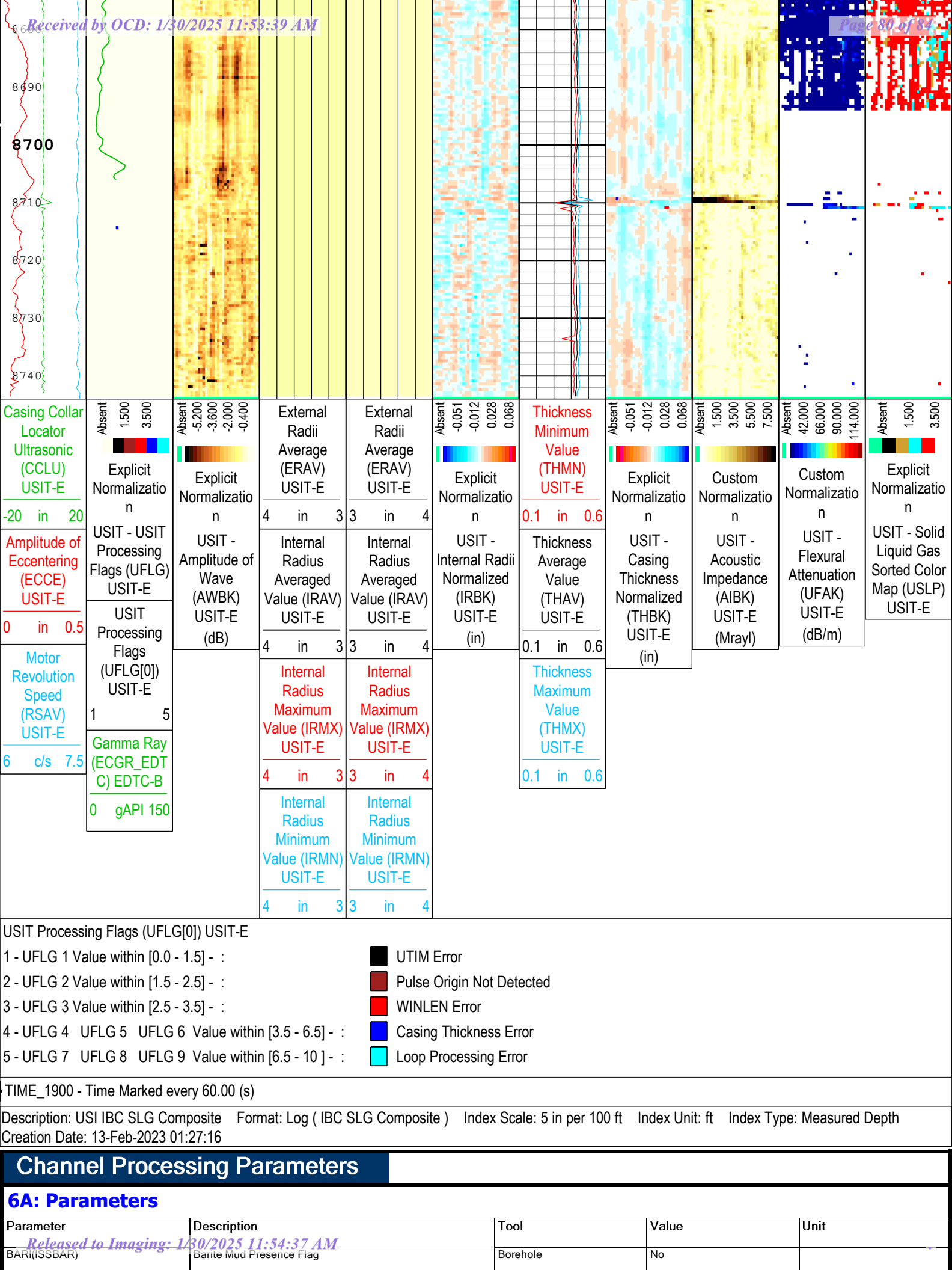
TIME_1900 - Time Marked every 60.00 (s)

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] - :				■ Pulse Origin Not Detected					
3 - UFLG 3 Value within [2.5 - 3.5] - :				■ WINLEN Error					
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :				■ Casing Thickness Error					
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :				■ Loop Processing Error					

Casing Collar Locator Ultrasonic (CCLU) USIT-E -20 in 20 Amplitude Eccentering		Explicit Normalization		USIT - USIT Processing Flags (UFLG)		USIT-E		USIT	
		External Radii Average (ERAV) USIT-E		External Radii Average (ERAV) USIT-E		Internal Radius Averaged Value (IRAV) USIT-E		Internal Radius Averaged Value (IRAV) USIT-E	
		4 in 3		3 in 4		4 in 3		3 in 4	
		Internal Radius Maximum		Internal Radius Maximum		Thickness Minimum Value (THMN) USIT-E		Thickness Average Value	
Absent		-0.051 -0.012 0.028 0.068		Absent		-0.051 -0.012 0.028 0.068		Absent	
1.500 3.500		1.500 3.500 5.500 7.500		42.000 66.000 90.000 114.000		1.500 3.500 5.500 7.500		42.000 66.000 90.000 114.000	







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BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.75	in
CBLO	Casing Bottom (Logger)	WLSESSION	8800	ft
CDEN	Cement Density	USIT-E	10.01	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	8.7	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
FD	Fluid Density	USIT-E	8.61	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	-33.35	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	Manual	
IMAR	Image Rotation	USIT-E	Off	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	25.94	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.06	
MUD_N_THE	Theoretical Mud Normalization Factor	USIT-E	1.07	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	1.58	Mrayl
U-USIT_UFAO	USIT Flexural Attenuation Offset	USIT-E	-34.62	dB/m
UFSFLT	Ultrasonic Flexural Surface Filter	USIT-E	LPF 250k	
U-USIT_UIAP	IBC Answer Product Enabled	USIT-E	SolidLiquidGasMap	
ZMUD	Acoustic Impedance of Mud	Borehole	1.5	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.1	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

6A: 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	Time Zoned	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	

Time Zone Parameters

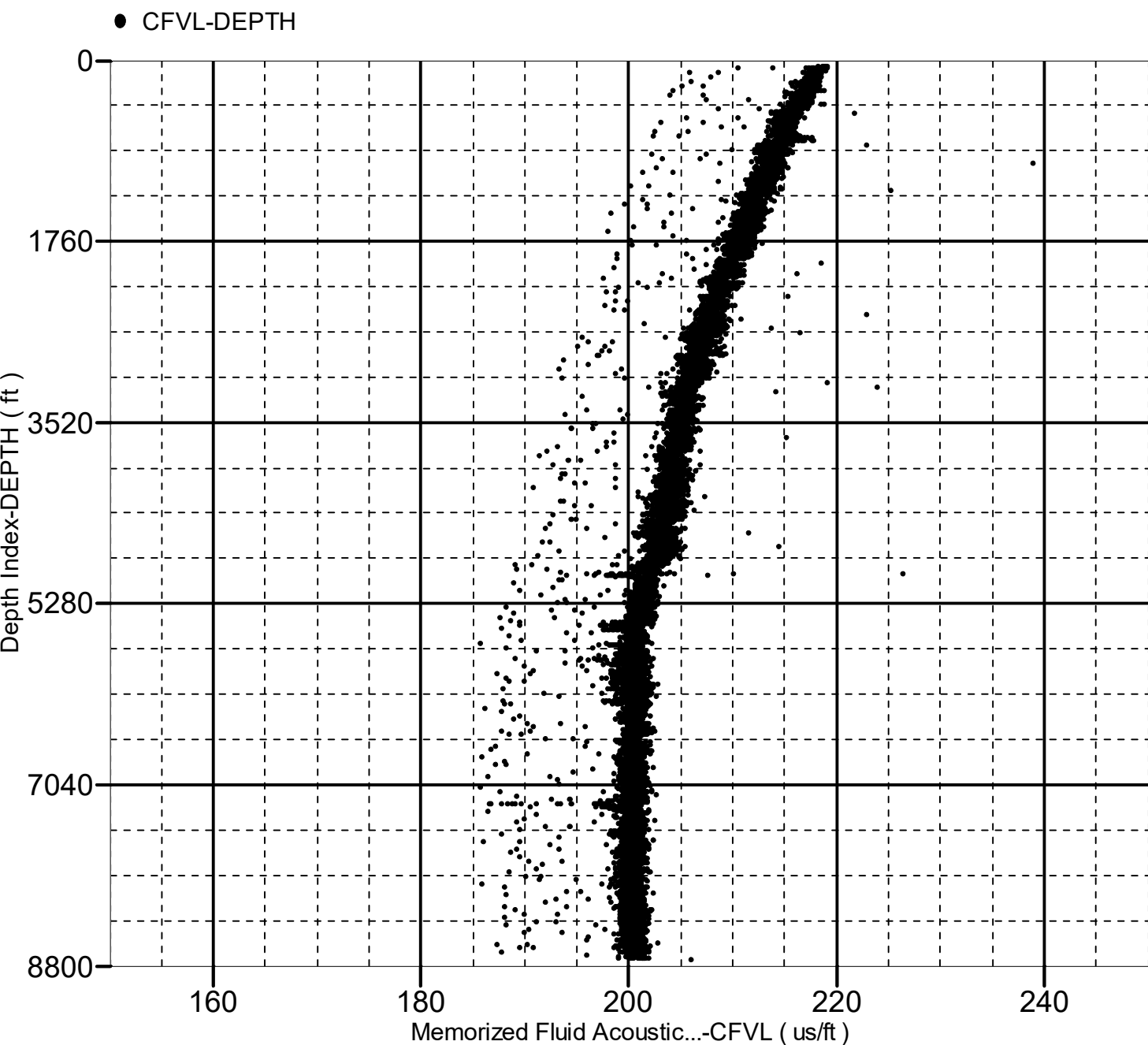
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
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EMXV	100	12-Feb-2023 13:41:15	12-Feb-2023 13:41:23	8679.35	8670.26
EMXV	110	12-Feb-2023 13:41:23	12-Feb-2023 13:46:56	8670.26	8308.79

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Fluid Acoustic Slowness vs Depth

2D Cross Plot

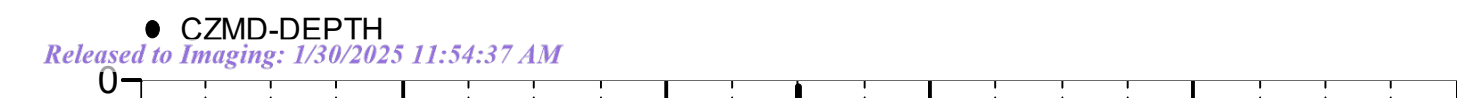
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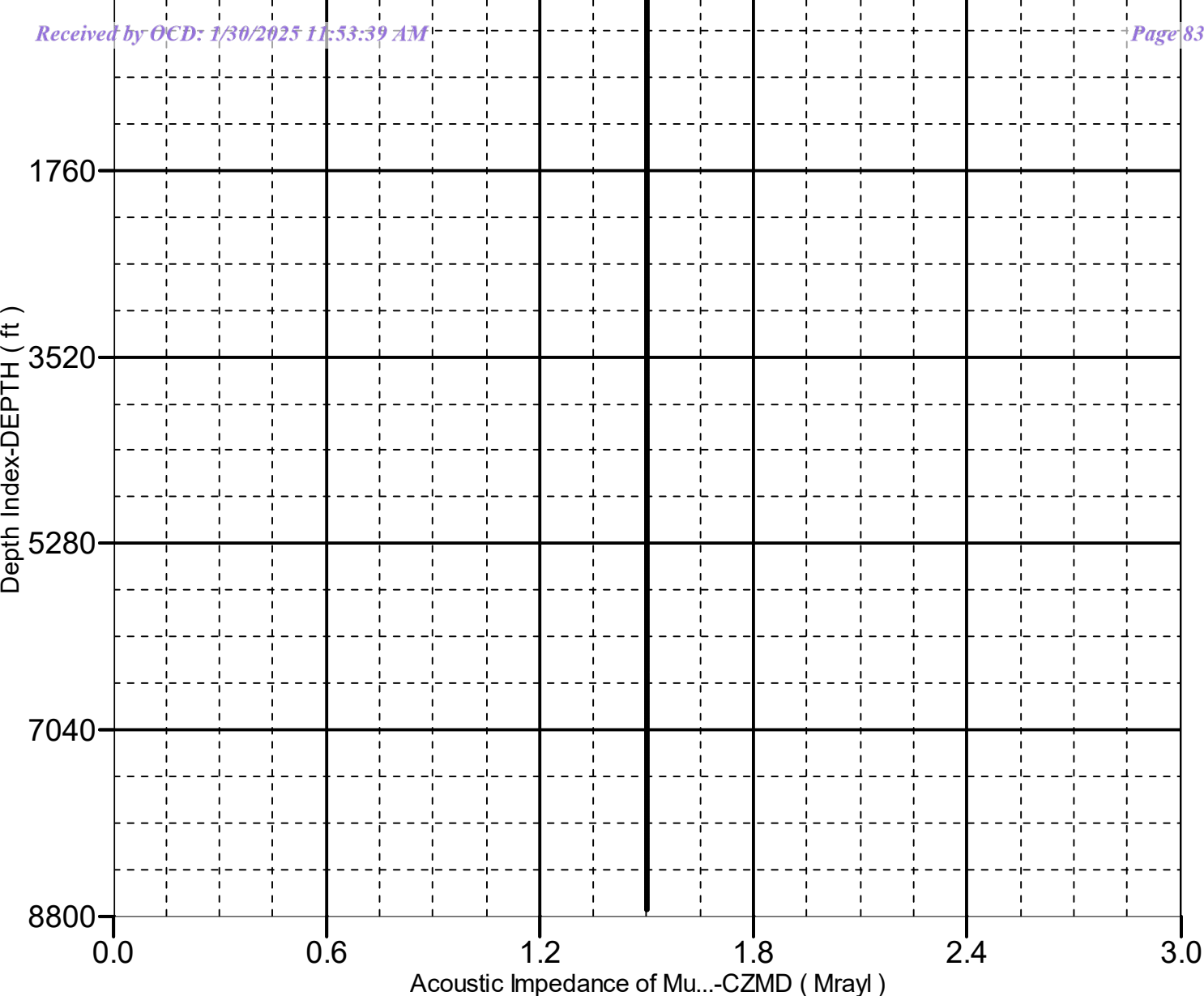


Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 8742.50 to 60.00 ft





Company:	New Mexico Institute of Mining & Technology	Schlumberger
Well:	SJB Carbon Safe Strat Test #001	
Field:	Entrada Formation	
County:	San Juan	
State:	New Mexico	
Isolation Scanner		
Cement Evaluation		
Gamma Ray - CCL Log		

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 426694

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 426694
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	1/30/2025