

Office
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 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

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-28308
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name North Hobbs G/SA Unit
8. Well Number Coop 5
9. OGRID Number 157984
10. Pool name or Wildcat Hobbs; (G/SA)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3650' GL

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.)	
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐ Injector ☐	
2. Name of Operator Occidental Permian LTD	
3. Address of Operator PO Box 4294 Houston, TX 77210	
4. Well Location Unit Letter _____ L : 1980 feet from the _____ S line and 646 feet from the _____ W line Section 34 Township 18S Range 38E NMPM County Lea	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3650' GL	

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.

1/28/20: MIRU x NDWH x NUBOP. 1/29/20: POOH 117 jts 2 7/8 tbg x inj packer. RIH 4" cibp @4295' x dumped 5 sxs cmt. RIH 4" cicr @4215'. Stung into retainer x pressure test. 1/30/20: Shot drain holes @4197 x RIH 3 1/4" bit x drilled out cicr x pushed cibp to 4290'. 1/31/20: RIH 4" cicr x stung into retainer x pressure test. 2/3/20: RIH 4" pkr to 4150' x pumped 53 bbls cmt x squeezed to 2500psi. Released pkr. 2/6/20 – 2/10/20: RIH 3 1/4" bit x tagged cmt @4165'. Drilled cmt to 4295' x pressure tested, held. 2/12/20: Tagged TOL @3968' x pumped 150 sxs cmt CL C x stung out on liner. 2/13/20: Set pkr @3636 x pumped 112 sxs cmt x pressure tested, held. 2/14/20 – 2/15/20: Released pkr x tagged TOC @3637. RIH 4 3/4" bit x drilled cmt to 4430'. 2/19/20: Ran GR/CCL from TD @4442' to 3810'. Shot perfs from 4230' to 4340'. 2/20/20: Performed 8 setting acid job w/ 5000 gals 15% NEFE acid x flushed out. 2/21/20: RIH 155 jts 2 7/8" tbg x 16 jts 2 3/8" tbg x on/off tool x 4" pkr @4265. Ran MIT chart, passed. 2/22/20: RD x NDBOP x NUWH. Well is back on injection.

Spud Date:

1/28/2020

Rig Release Date:

2/22/2020

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

SIGNATURE April Santos TITLE Regulatory Specialist DATE 04/06/2021

Type or print name April Santos E-mail address: April_Hood@Oxy.com PHONE: 713-366-5771

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Company: Occidental Permian, Ltd

Well: SOUTH HOBBS G/SA UNIT COOP #005

Field: SOUTH HOBBS (GRAYBURG-SAN ANDRES)

County: LEA State: NEW MEXICO

County: LEA
Field: SOUTH HOBBS (GRAYBURG-SAN ANDRES)
Location: Section: 34, Township: 18S, Range: 38E
Well: SOUTH HOBBS G/SA UNIT COOP #005
Company: Occidental Permian, Ltd

Corrosion Print
Gamma Ray
Casing Collar Locator

Location:		Section: 34, Township: 18S, Range: 38E	Elev.:	K.B.	3636.80 ft
		Footages: 1980' FSL & 646' FWL		G.L.	3624.80 ft
				D.F.	3635.80 ft
Permanent Datum:	Ground Level		Elev.:	3624.80 f	
Log Measured From:	Kelly Bushing		12.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing				
API Serial No.	Section:	34	Township:	18S	Range:
3002528308					38E

Logging Date	04-Feb-2020
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Run Number	1
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Depth Driller	4490.00 ft
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Schlumberger Depth	3950.00 ft
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Bottom Log Interval	3950.00 ft
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Top Log Interval	25.00 ft
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Casing Fluid Type	Brine
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Salinity	
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Density	8.4 lbm/gal
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Fluid Level	8.00 ft
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BI/CASING/TUBING STRING	
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BI Size	7.88 in
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BI Depth	1628.00 ft
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T	4490.00 ft
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Casing/Tubing Size	5.5 in
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Weight	15.5 lbm/ft
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Gide	K55
------	-----

FLH	0.00 ft
-----	---------

T	4089.00 ft
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Recorded Temperatures	94.4 degF
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Log on Bottom	04-Feb-2020
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U-Number	2190
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Location:	Time	11:38:00
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Recorded By	Doug May/Saira Guillen
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Witnessed By	Hector Burciaga
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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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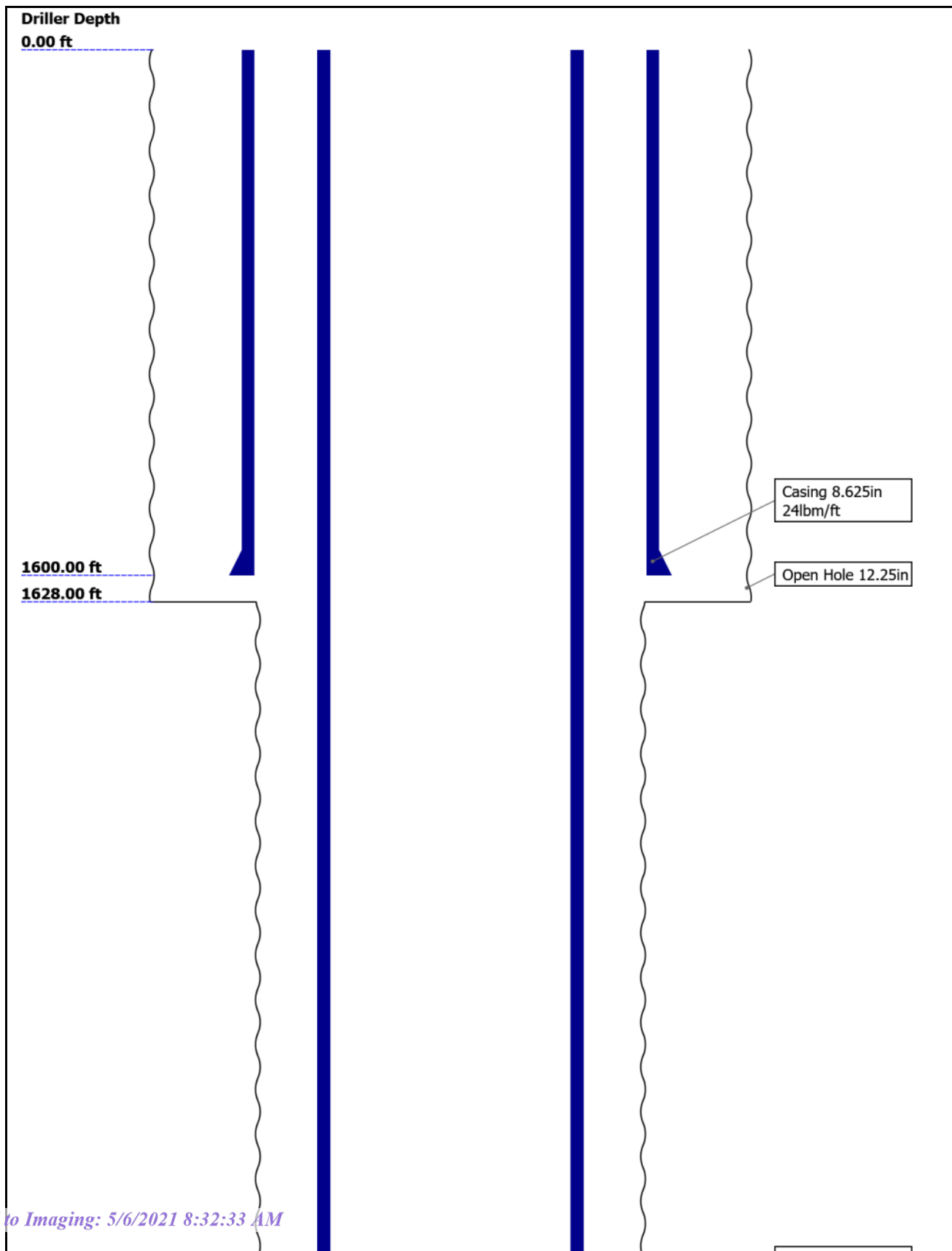
Received by OGD: 4/6/2021 10:31:02 AM

10.3	Composite Summary
10.4	Log (Import (2) of USI Local Comp)
10.5	Parameter Listing
11.	1 Hi-Resolution Pass 5" = 100'
11.1	Integration Summary
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15.	XYZ (Import of WTX Fluid Slowness v Depth)
16.	XYZ (Import of WTX Acoustic Impedance v Depth)
17.	Tail

Well Sketch



4089.00 ft

4490.00 ft

Open Hole 7.875in

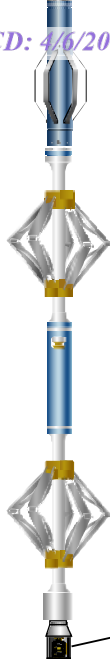
Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	12.25	7.875				
Top Driller (ft)	0	1628				
Top Logger (ft)	0	1628				
Bottom Driller (ft)	1628	4490				
Bottom Logger (ft)	1628	4490				
Casing						
Size (in)	8.625	5.5				
Weight (lbm/ft)	24	15.5				
Inner Diameter (in)	8.097	4.95				
Grade	K55	K55				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	1600	4089				
Bottom Logger (ft)	1600	4089				

Remarks and Equipment Summary

1: Toolstring			1: Remarks		
Equip name	Length	MP name	Offset	Logging Objective: Corrosion Analysis from 3950 to surface. 09/1983 South Hobbs Unit 5.5/K55/15.5/0/4490 Toolstring run as per toolsketch and client USIT centralizaed with small hole kit, booster kit, and 5.2" Gemco. Main Pass logged at 10 deg 1.5" at 500 PSI. Hi- resolution Pass logged at 10 deg 0.6 in. Maximum Temperature from EDTC CTEM 94.4 deg F. 500 ft Repeat pass logged at 10 deg 1.5" at 0 PSI. Logs correlated to DV tool at 3380 ft per client	
LEH-QC	31.91				
CAL-YA:6	29.46				
38					
CAL-YA:63					
8					
EDTC-B:8	25.96				
941					
EDTH-B:86					
09					
EDTG-B:79					
123					
EDTC-B:89					
41					
AH-184:4	19.46				
879					
AH-107:7	17.46				
71					





USI Sen 0.37
 sor
 TOOL_ZERO

Lengths are in ft
 Maximum Outer Diameter = 6.250 in
 Line: Sensor Location, Value: Gating Offset
 All measurements are relative to TOOL_ZERO

Depth Summary

1

Depth Measuring Device

Type	IDW-JA		
Serial Number	6782		
Calibration Date	23-SEP-2019		
Calibrator Serial Number	IDWC-C-57		
Calibration Cable Type	7-32 AS-XS		
Wheel Correction 1	0		
Wheel Correction 2	1		

Tension Device

Type	CMTD-B/A		
Serial Number	1377		
Calibration Date	16-JAN-2020		
Calibrator Serial Number	TDC-C-13		
Number of Calibration Points	10		
Calibration Root Mean Square Error			
Calibration Peak Error	4		

Logging Cable

Type	7-32AS-XS		
Serial Number	327486		
Length	18000.00 ft		
Conveyance Type	Wireline		
Rig Type	Workover		

1:Depth Control Parameters

Depth Control Remarks

Log Sequence Subsequent Trip To the Well
 Released to Imaging: 5/6/2021 8:32:33 AM
 Reference Log Name

All Schlumberger depth control procedures followed.
 IDW used as primary depth control system.

USIT - Fluid Properties Measurement

Run Name	Pass Name	Start Depth(ft)	Stop Depth(ft)
Run 1	Log[3]:Up	770.48	411.7

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

Start Depth(ft)	Stop Depth(ft)	Start Value(us/ft)	End Value(us/ft)
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Mud Impedance = "FreePipe Norm."
Free Pipe normalization zone is : 179.52m(588.98ft) to 180.86m(593.36ft)
MUD_N_FRP = 1.29
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in free pipe normalization interval = 2.26 MRayl

Start Depth(ft)	Stop Depth(ft)	Start Value(Mrayl)	End Value(Mrayl)
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1

Main Pass 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2019.2	9.2.113335.3100
Application Patch	Wireline_NPD-PMCT-2019.2_9.2.113766

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Main[9]:Up	Up	-5.72 ft	3944.45 ft	04-Feb-2020 12:54:34 PM	04-Feb-2020 2:27:35 PM	ON	-6.54 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Occidental Permian, Ltd Well:SOUTH HOBBS G/SA UNIT COOP #005 1: Main[9]:Up:S005
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Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 04-Feb-2020 22:24:15

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 - 2.44] - :
3 - UFLG 2 Value within [2.44 - 2.5] - :
4 - UFLG 3 Value within [2.5 - 3.5] - :
5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

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

Amplitude of Eccentering (ECCE) USIT-E

Released to Imaging: 5/6/2021 8:32:33 AM

U L B R U

Orientation: Top of Hole

Absent 1.500 2.500 6.500

Explicit Normalization

USIT - Amplitude of

USIT-E

U L B R U

Orientation: Top of Hole

Absent 5.200 3.600 2.000 0.400

Explicit Normalization

USIT - Amplitude of

USIT-E

ERAV-IRAV

ERAV

IRAV

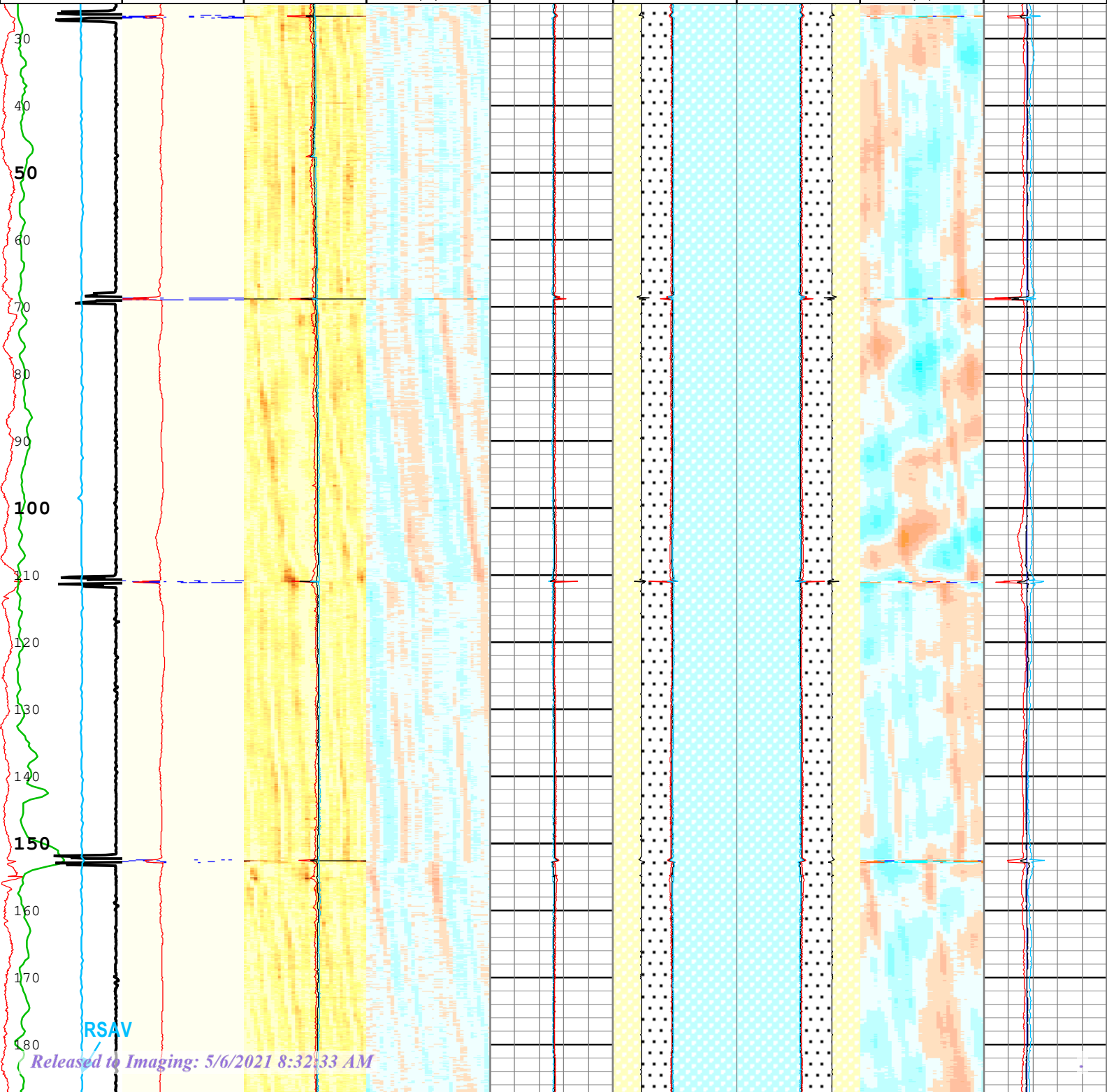
IRAV-ERAV

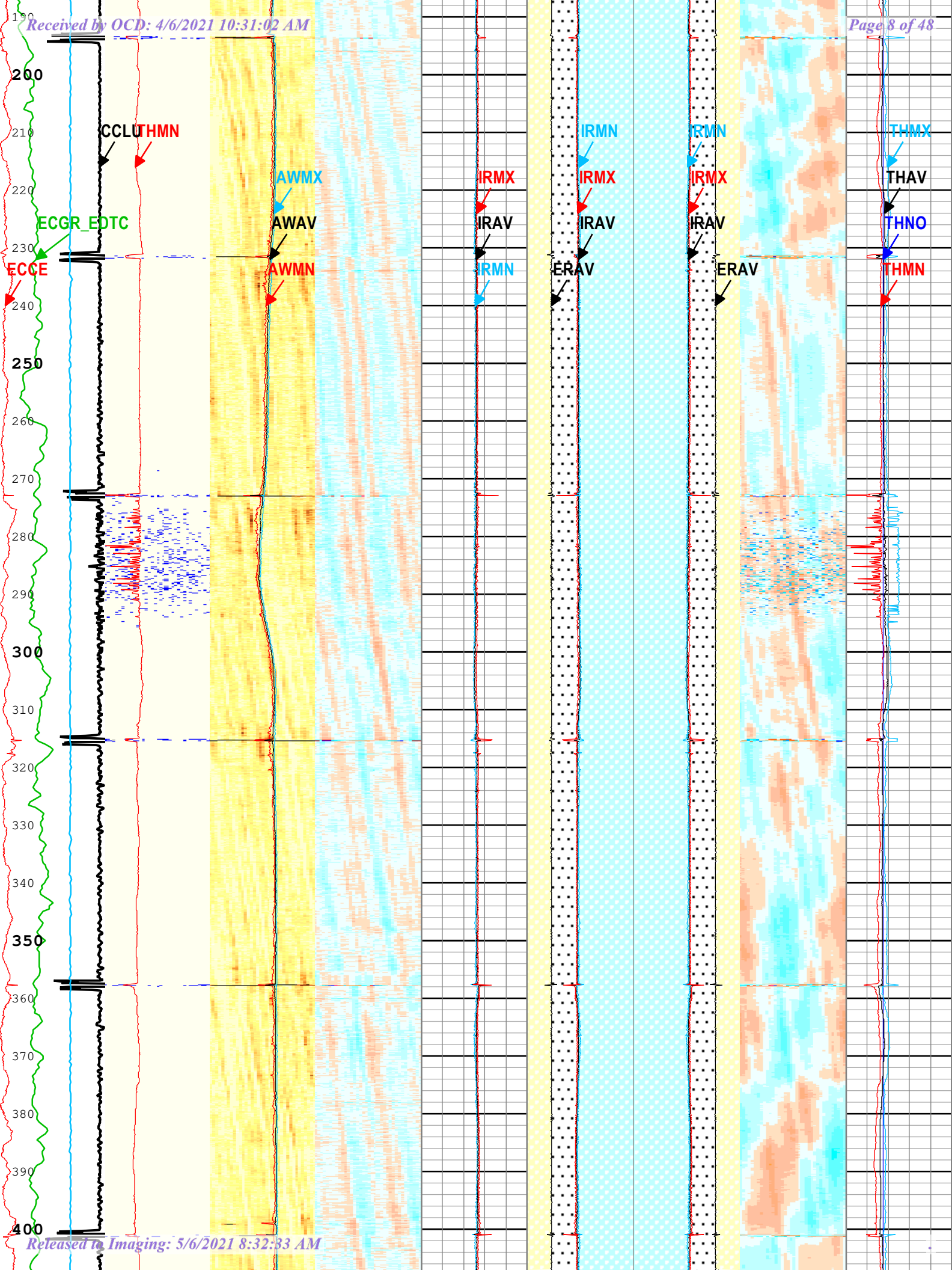
External Radii Average (ERAV) USIT-E

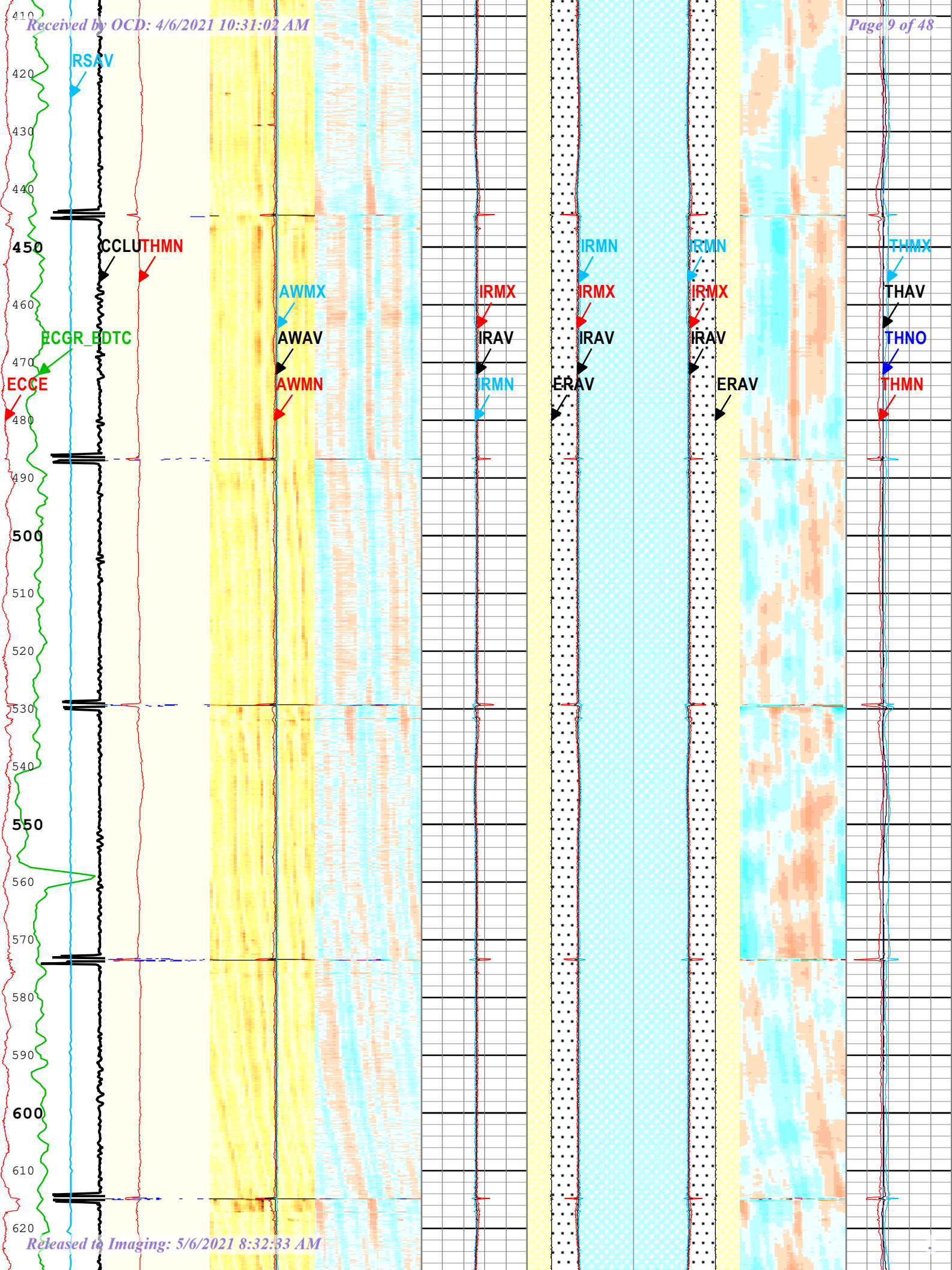
External Radii Average (ERAV) USIT-E

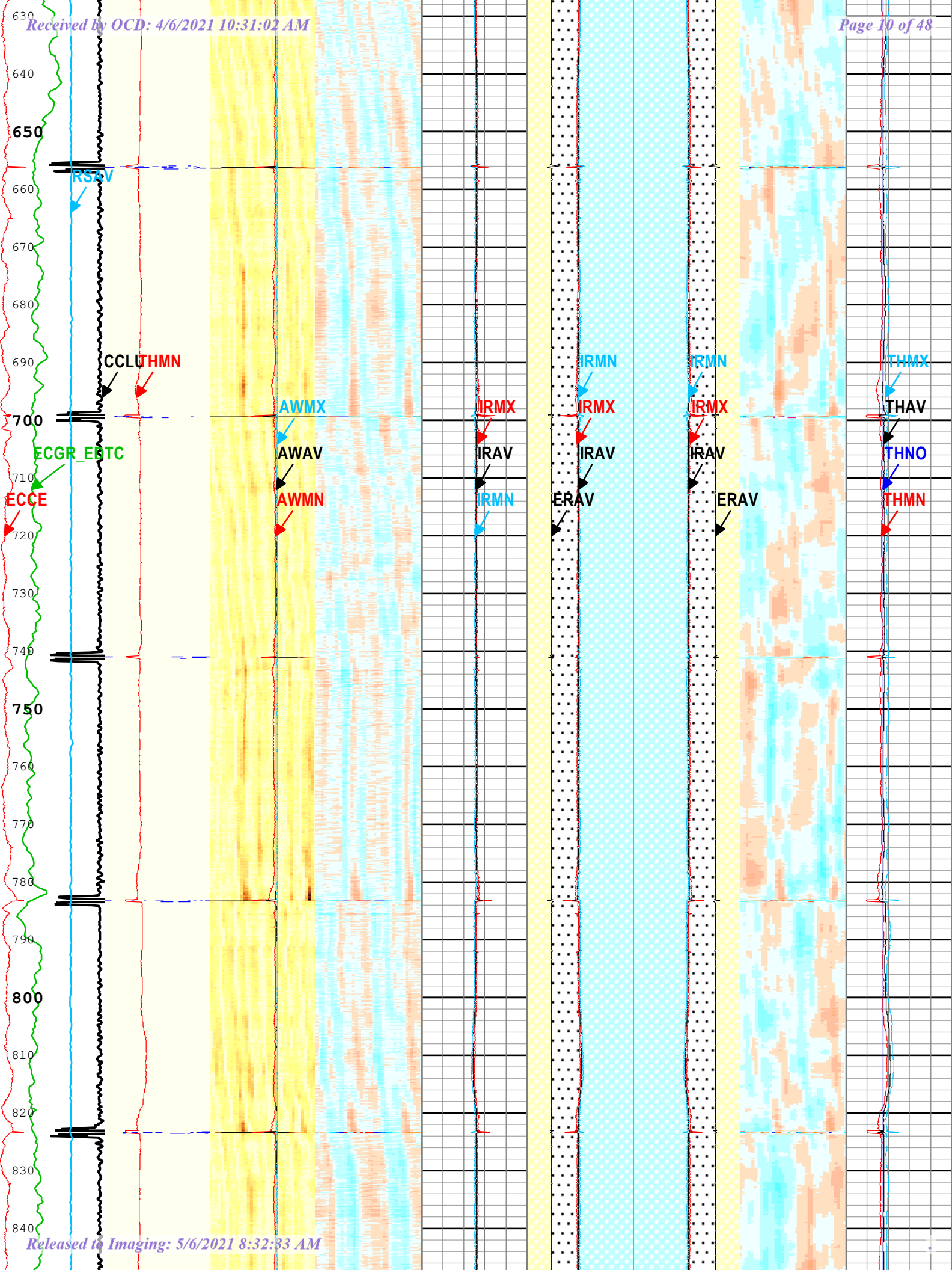
Thickness Minimum Value (THMN) USIT-E

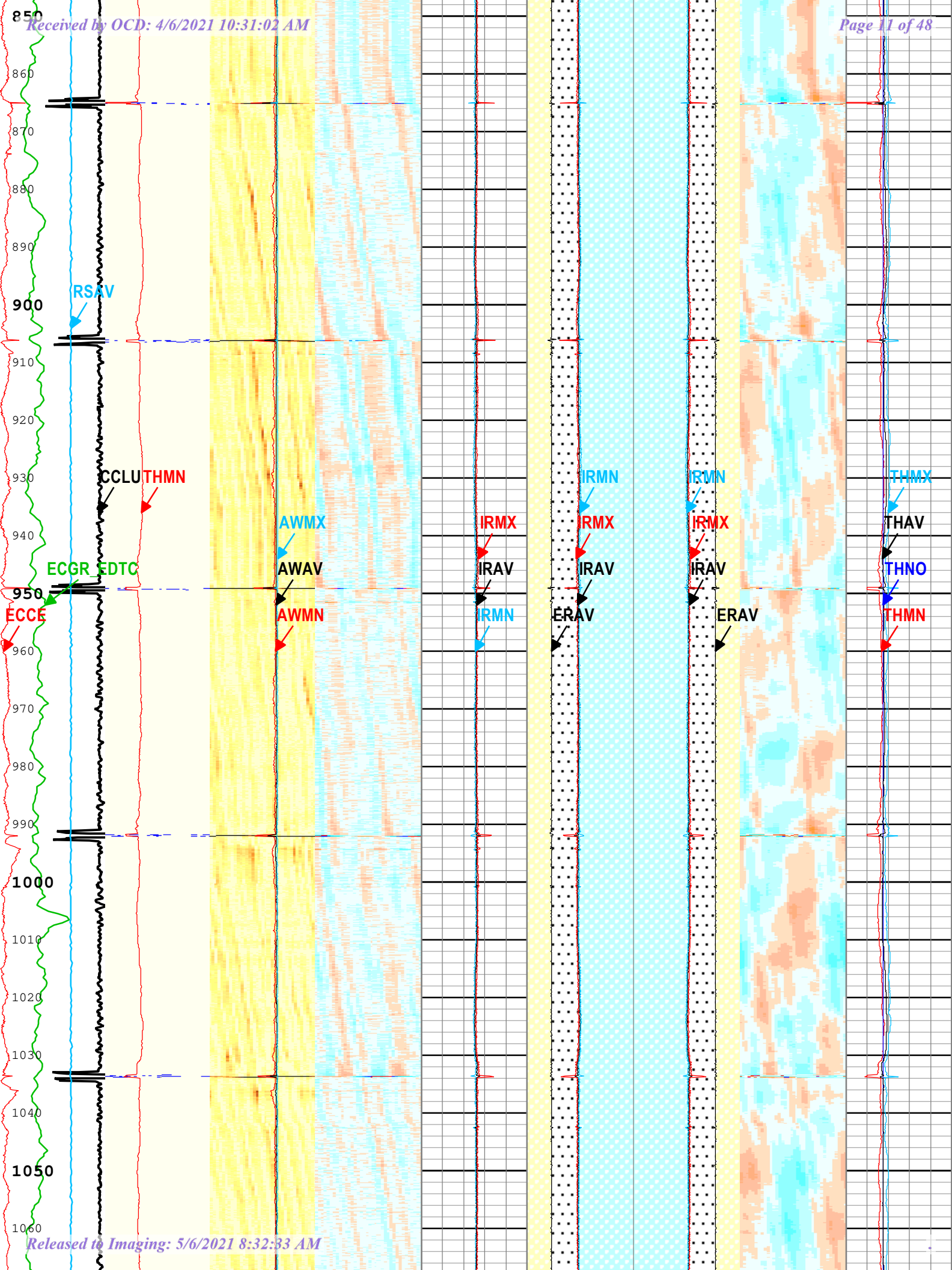
(ECGR_EDTC) EDTC-B	USIT - USIT Processing Flags (UFLG) USIT-E	Amplitude of Wave Minimum (AWMN) USIT-E	U L B R U Orientation: Top of Hole Explicit Normalization	Internal Radius Minimum Value (IRMN) USIT-E	Internal Radius Averaged Value (IRAV) USIT-E	Internal Radius Averaged Value (IRAV) USIT-E	U L B R U Orientation: Top of Hole Explicit Normalization	Nominal Casing Thickness (THNO) USIT-E
0 gAPI 150		0 dB 75		1.9 in 3	3 in 1.9	1.9 in 3		0.1 in 0.6
Casing Collar Locator Ultrasonic (CCLU) USIT-E	USIT Processing Flags (UFLG[0]) USIT-E	Amplitude of Wave Average (AWAV) USIT-E		Internal Radius Averaged Value (IRAV) USIT-E	Internal Radius Maximum Value (IRMX) USIT-E	Internal Radius Maximum Value (IRMX) USIT-E		Thickness Average Value (THAV) USIT-E
-19 in 1	1 6	0 dB 75		1.9 in 3	3 in 1.9	1.9 in 3		0.1 in 0.6
Motor Revolution Speed (RSAV) USIT-E	Thickness Minimum Value (THMN) USIT-E	Amplitude of Wave Maximum (AWMX) USIT-E	USIT - Internal Radii Normalized (IRBK) USIT-E (in)	Internal Radius Maximum Value (IRMX) USIT-E	Internal Radius Minimum Value (IRMN) USIT-E	Internal Radius Minimum Value (IRMN) USIT-E	USIT - Casing Thickness Normalized (THBK) USIT-E (in)	Thickness Maximum Value (THMX) USIT-E
6 c/s 8	0.1 in 0.6	0 dB 75		1.9 in 3	3 in 1.9	1.9 in 3		0.1 in 0.6

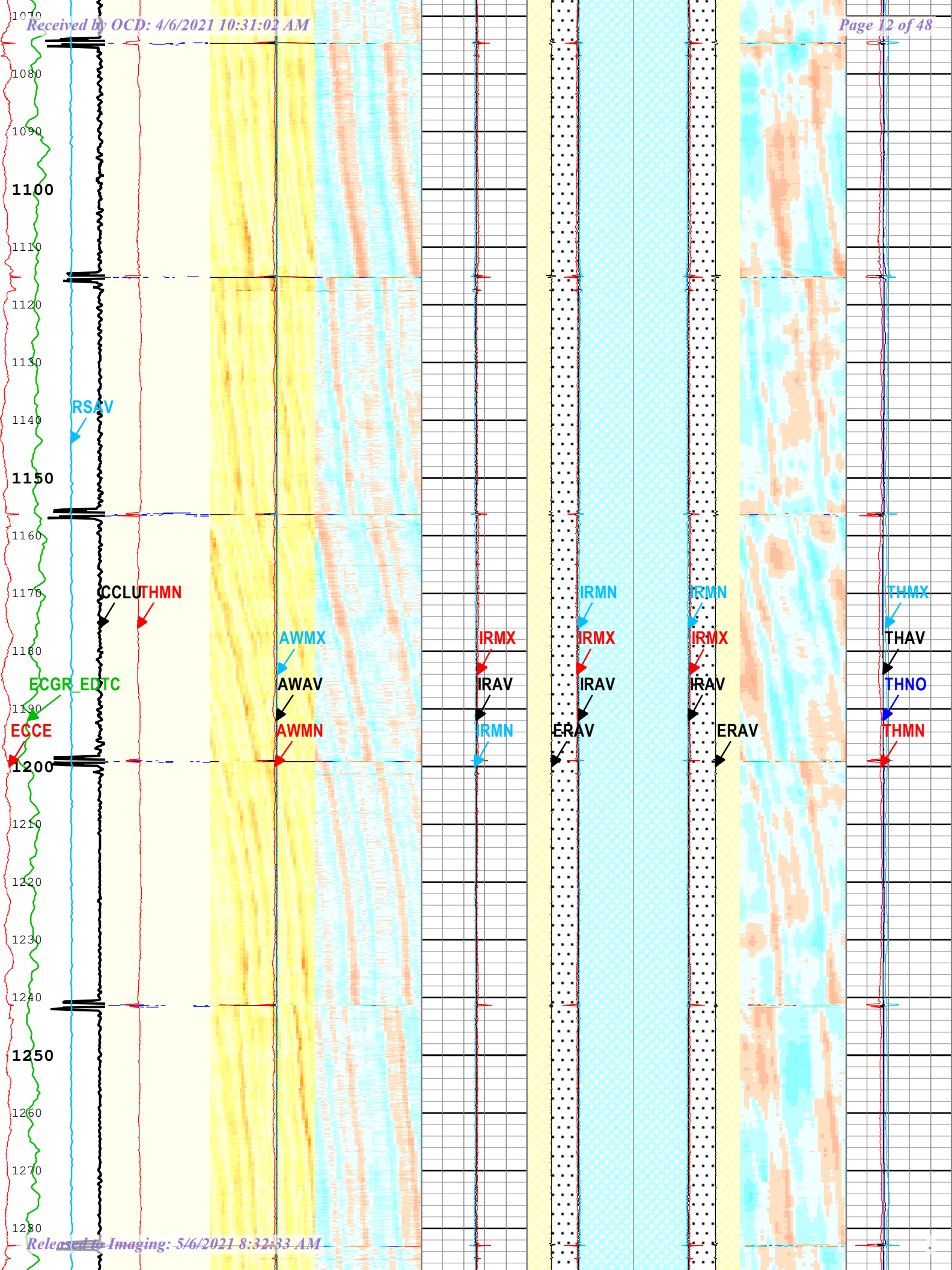


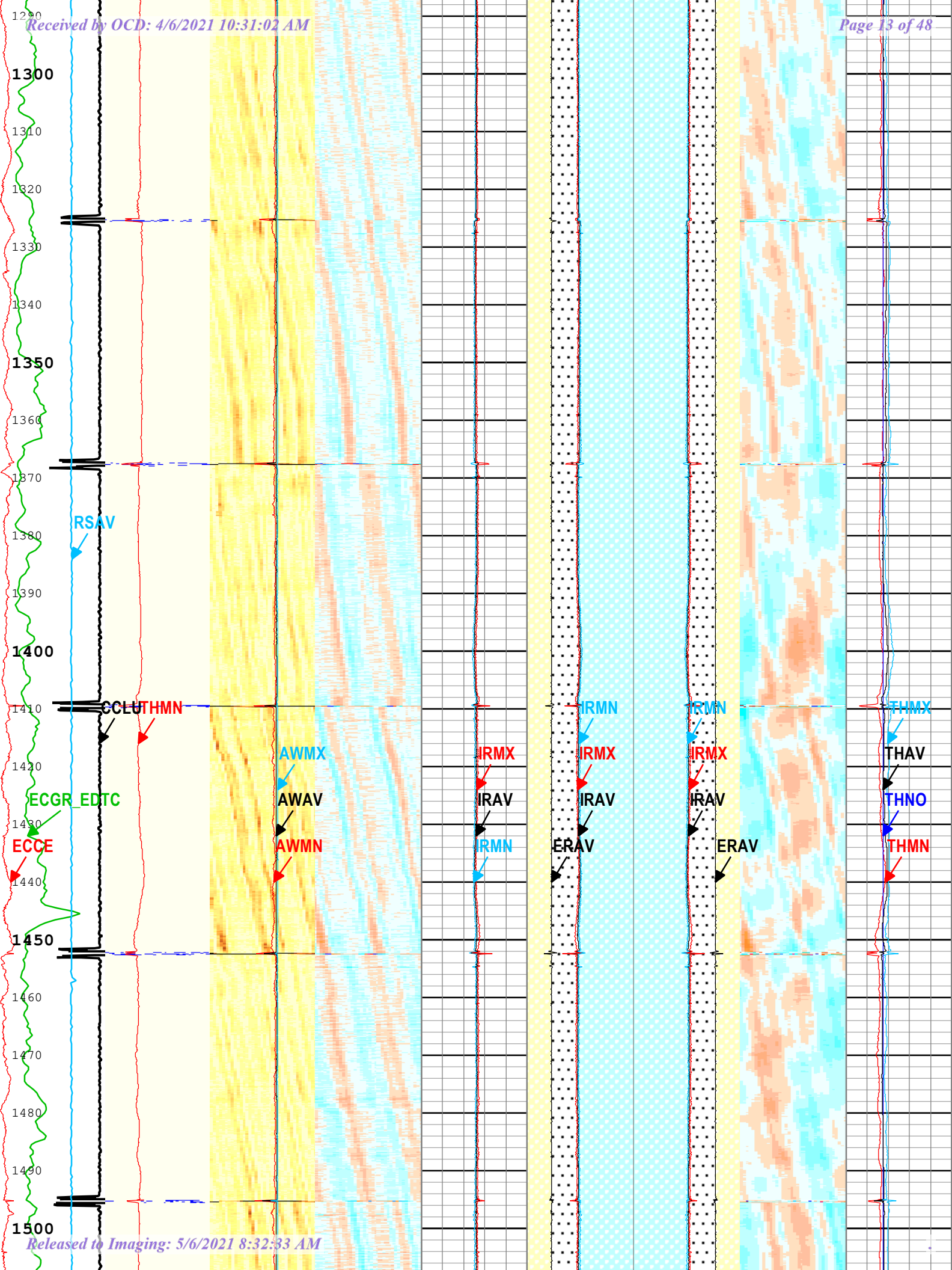


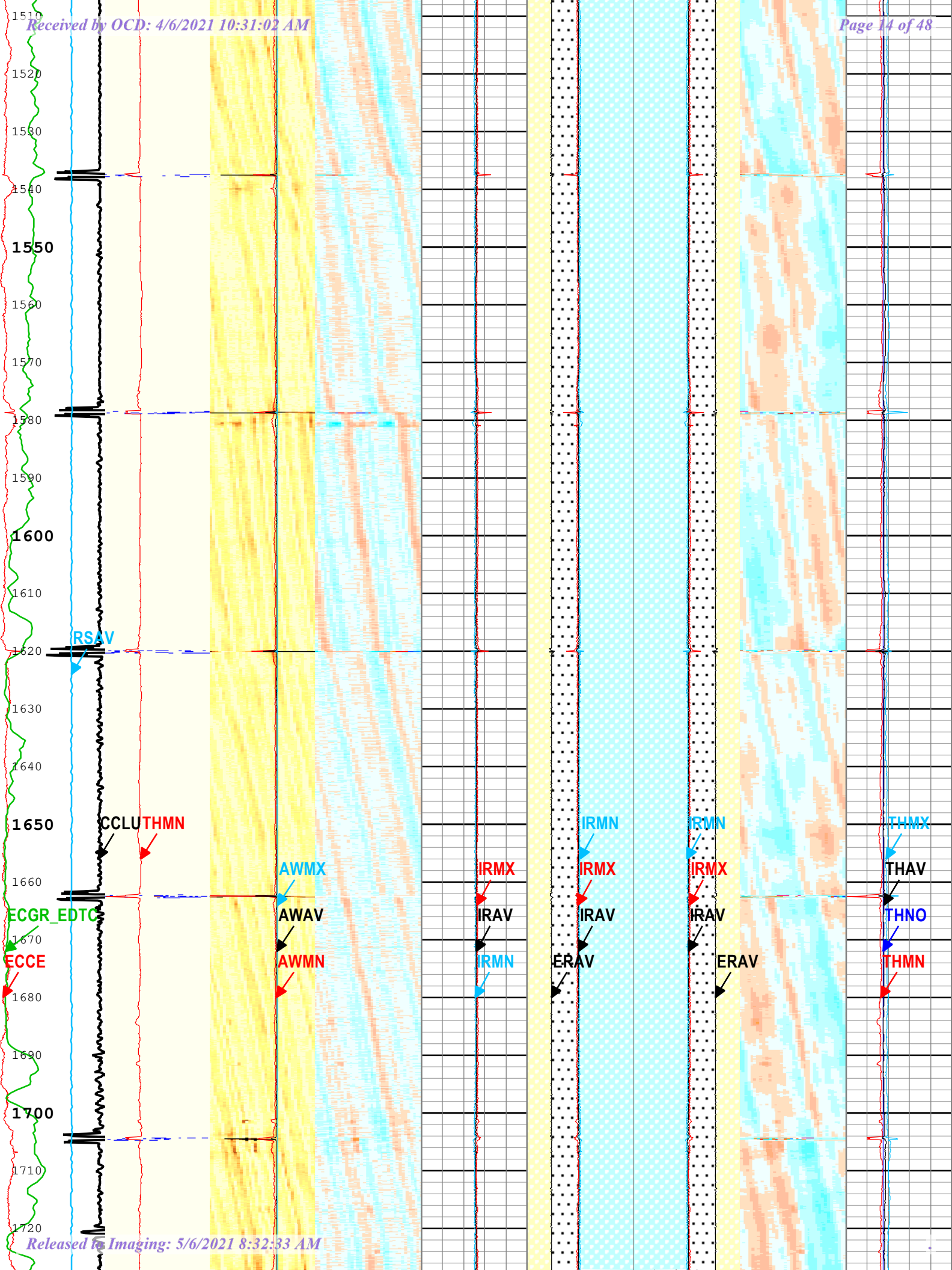


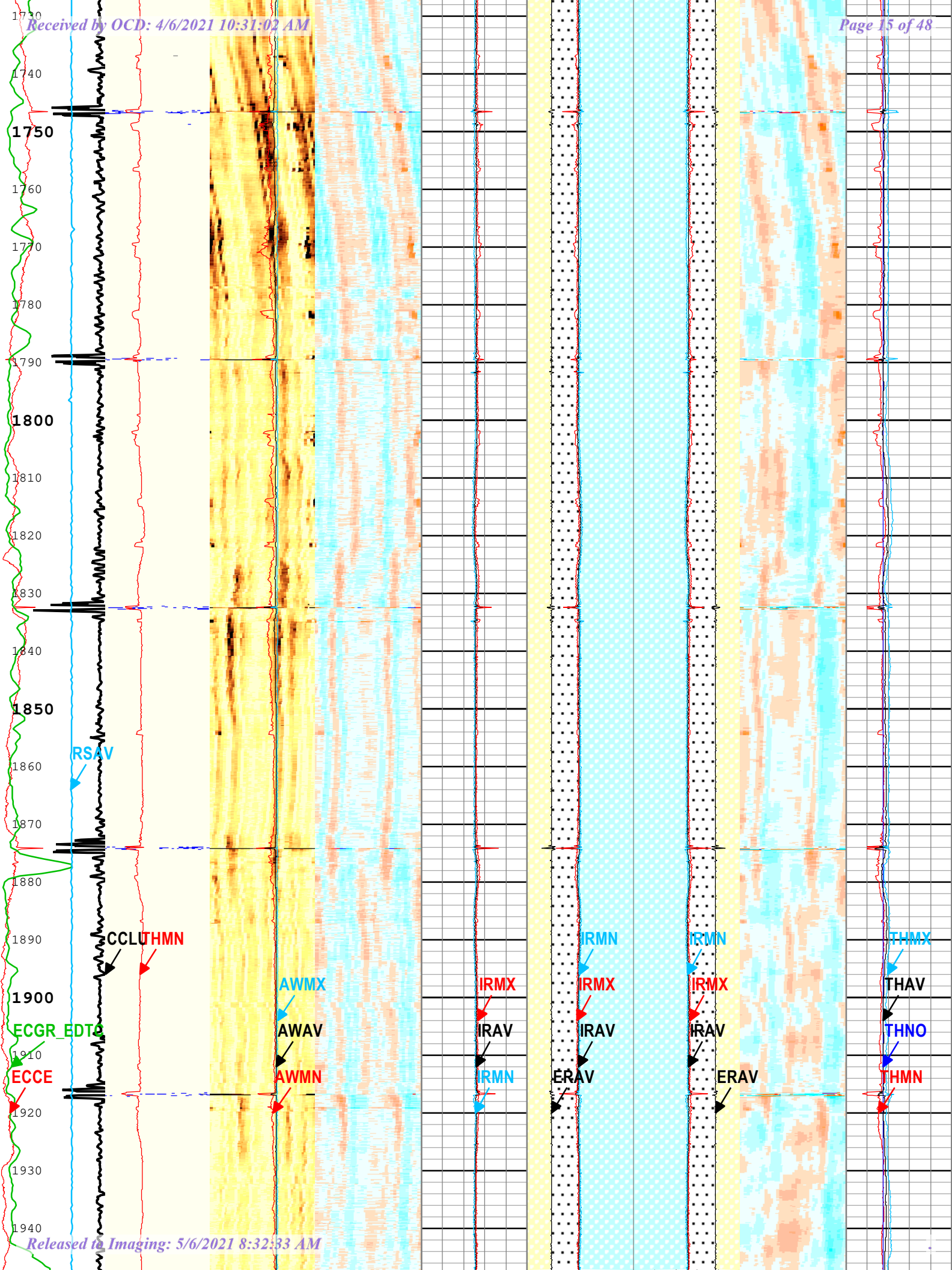


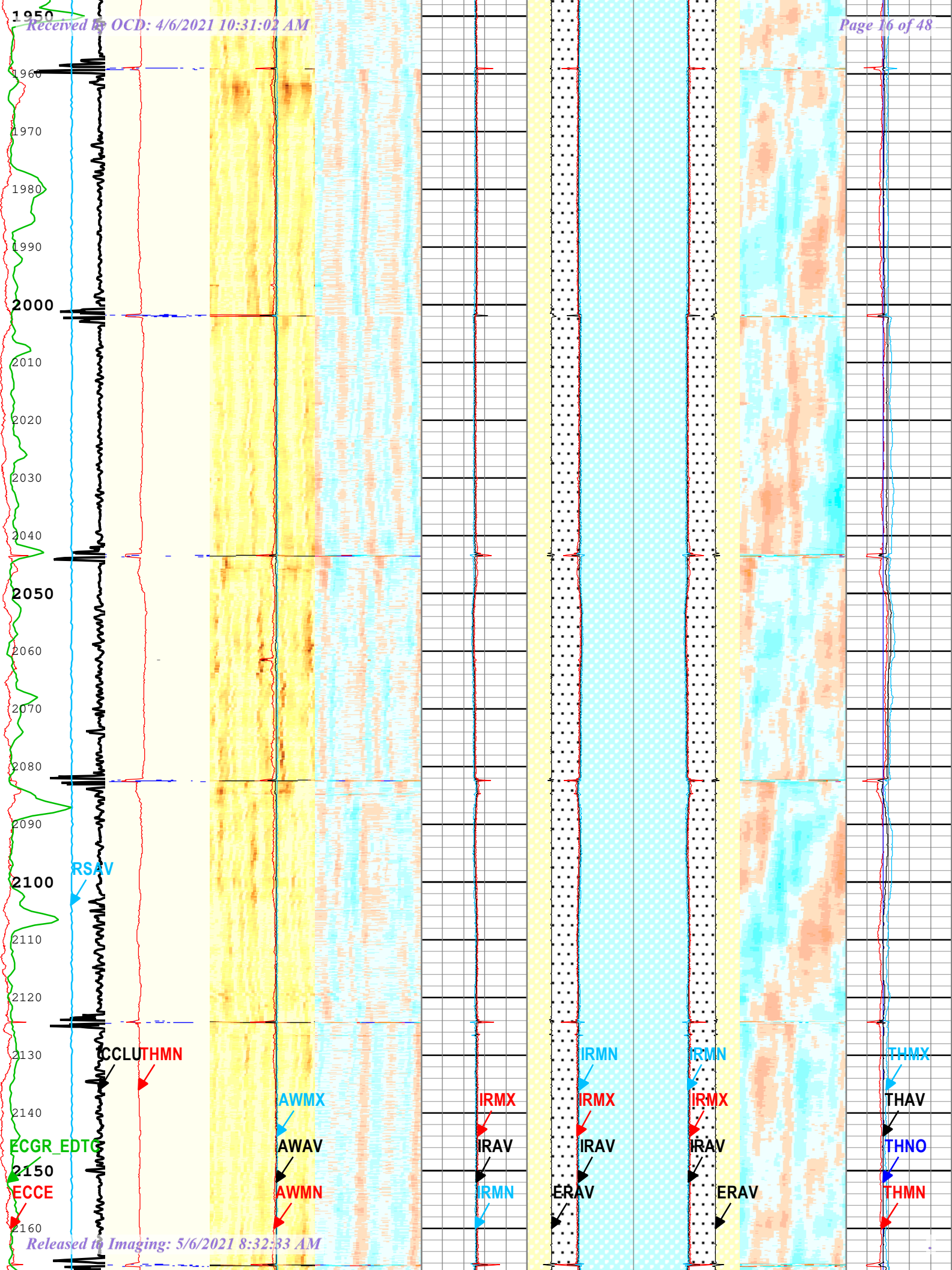


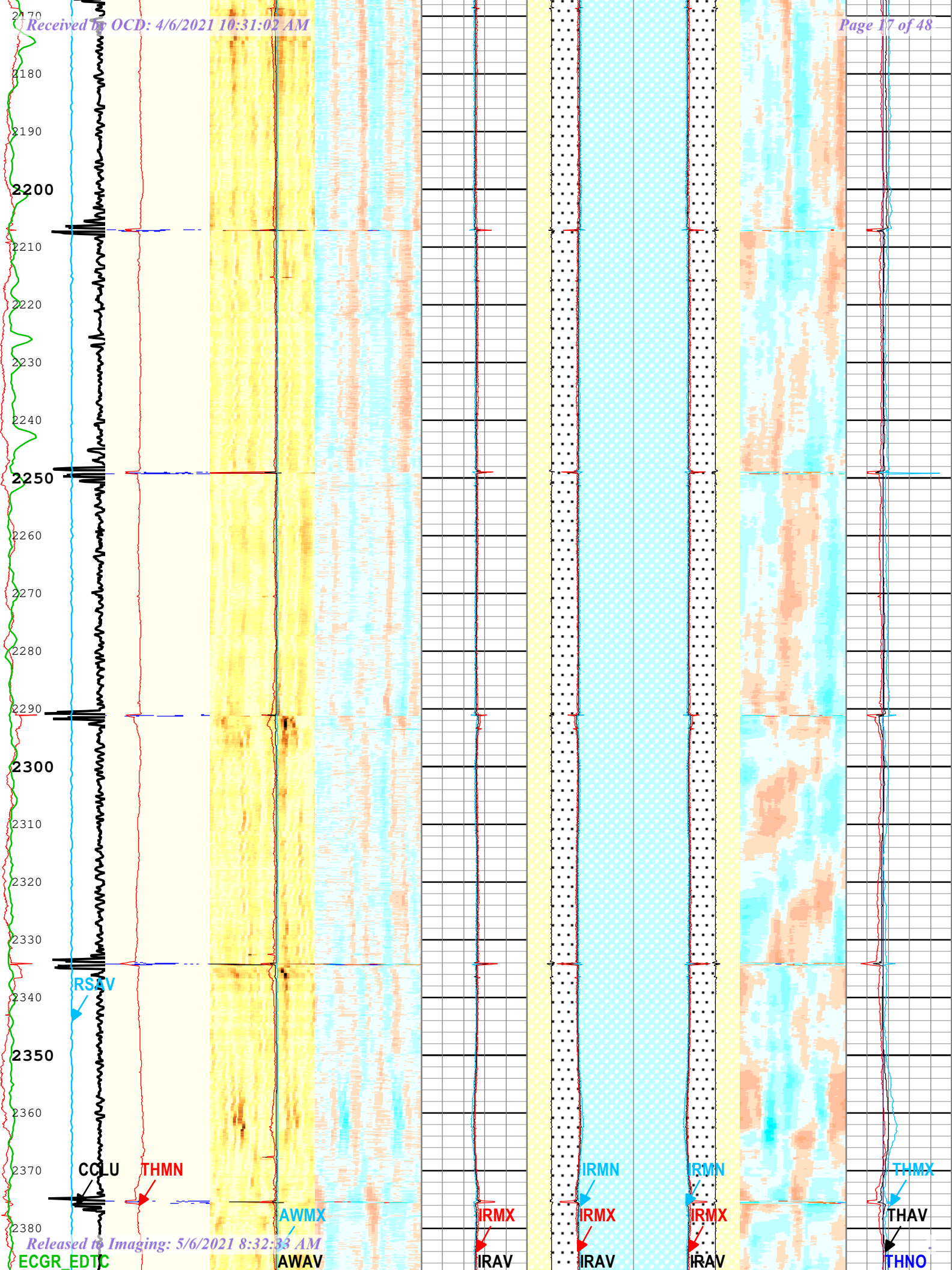


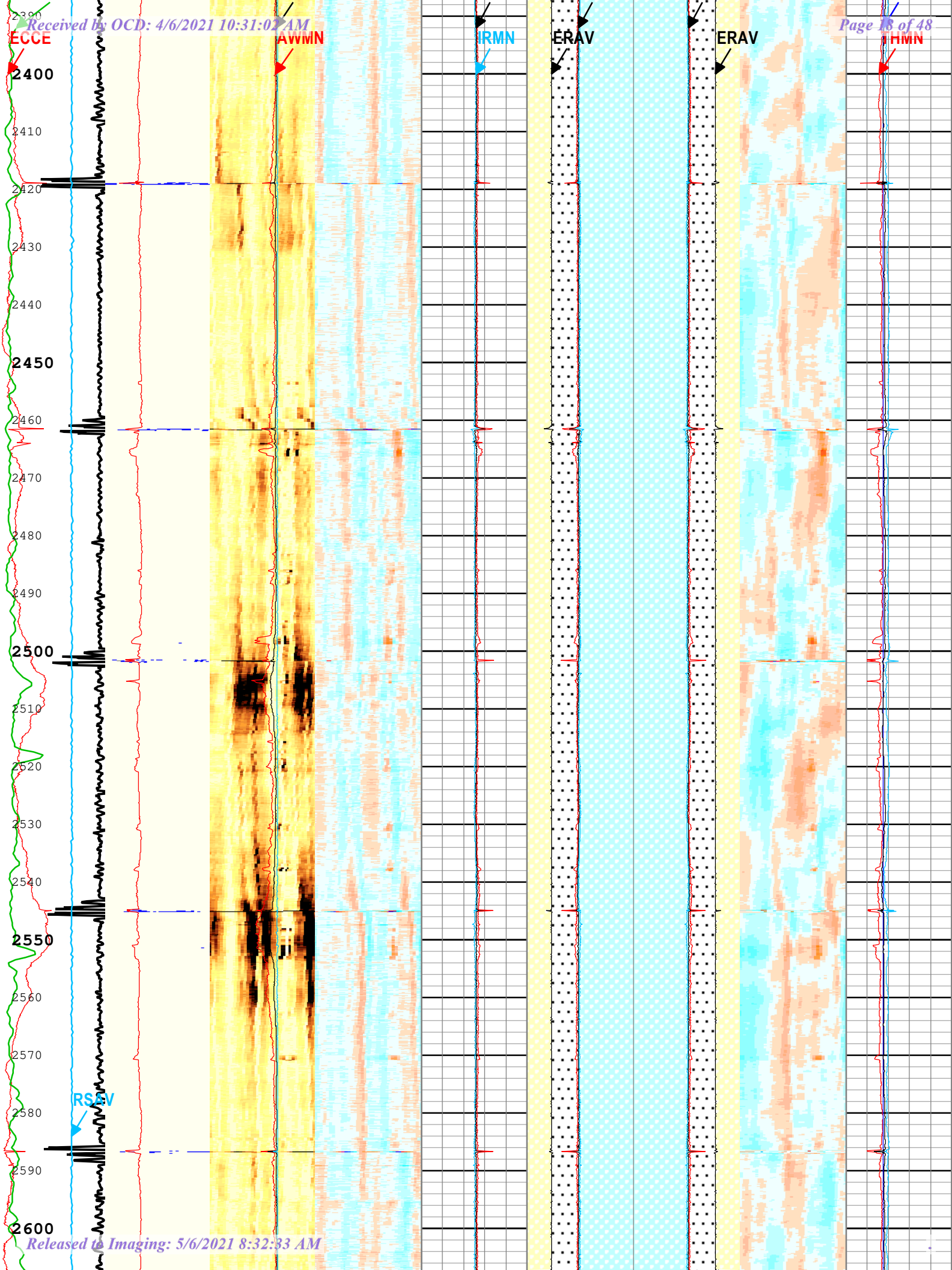


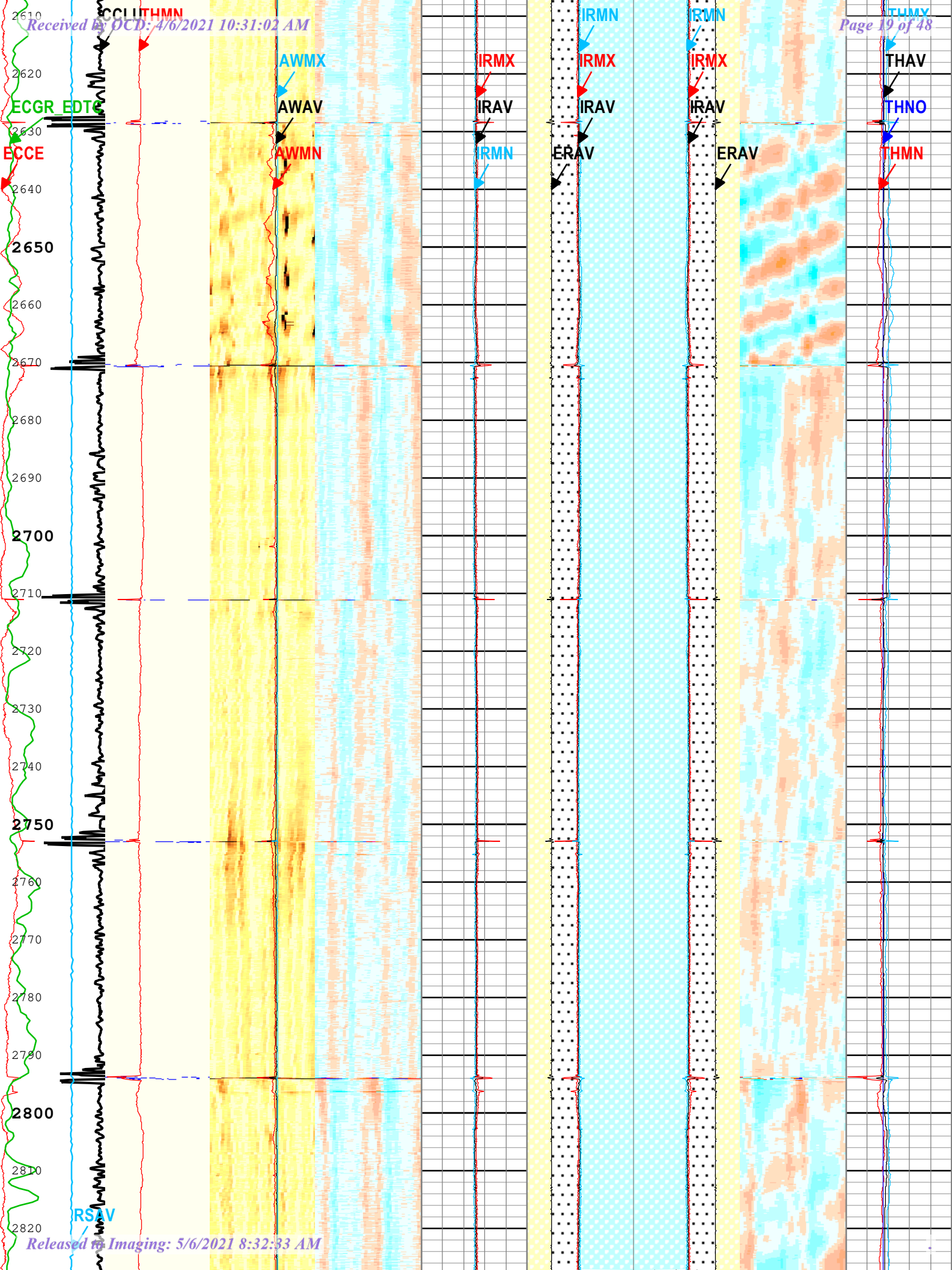


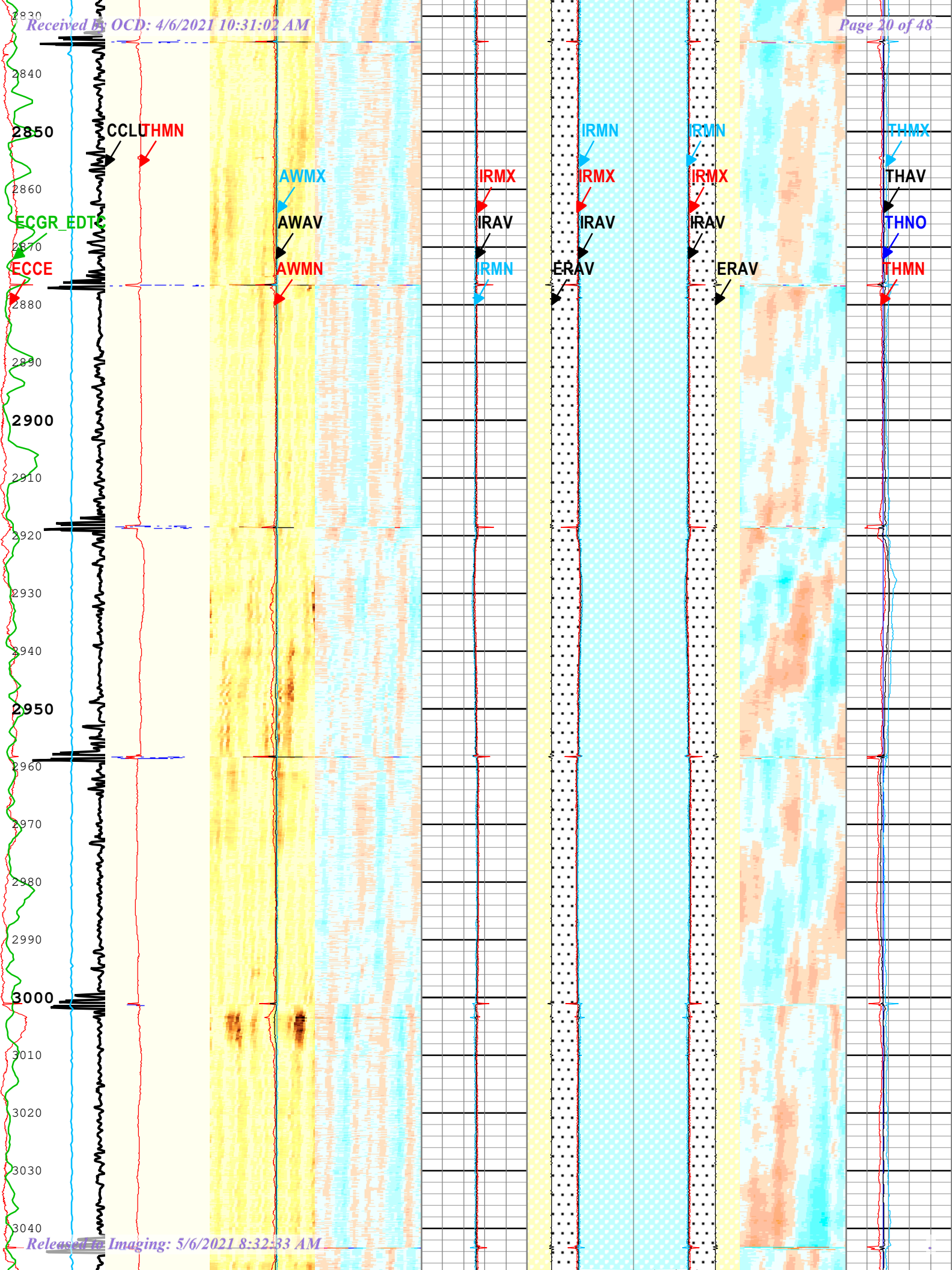


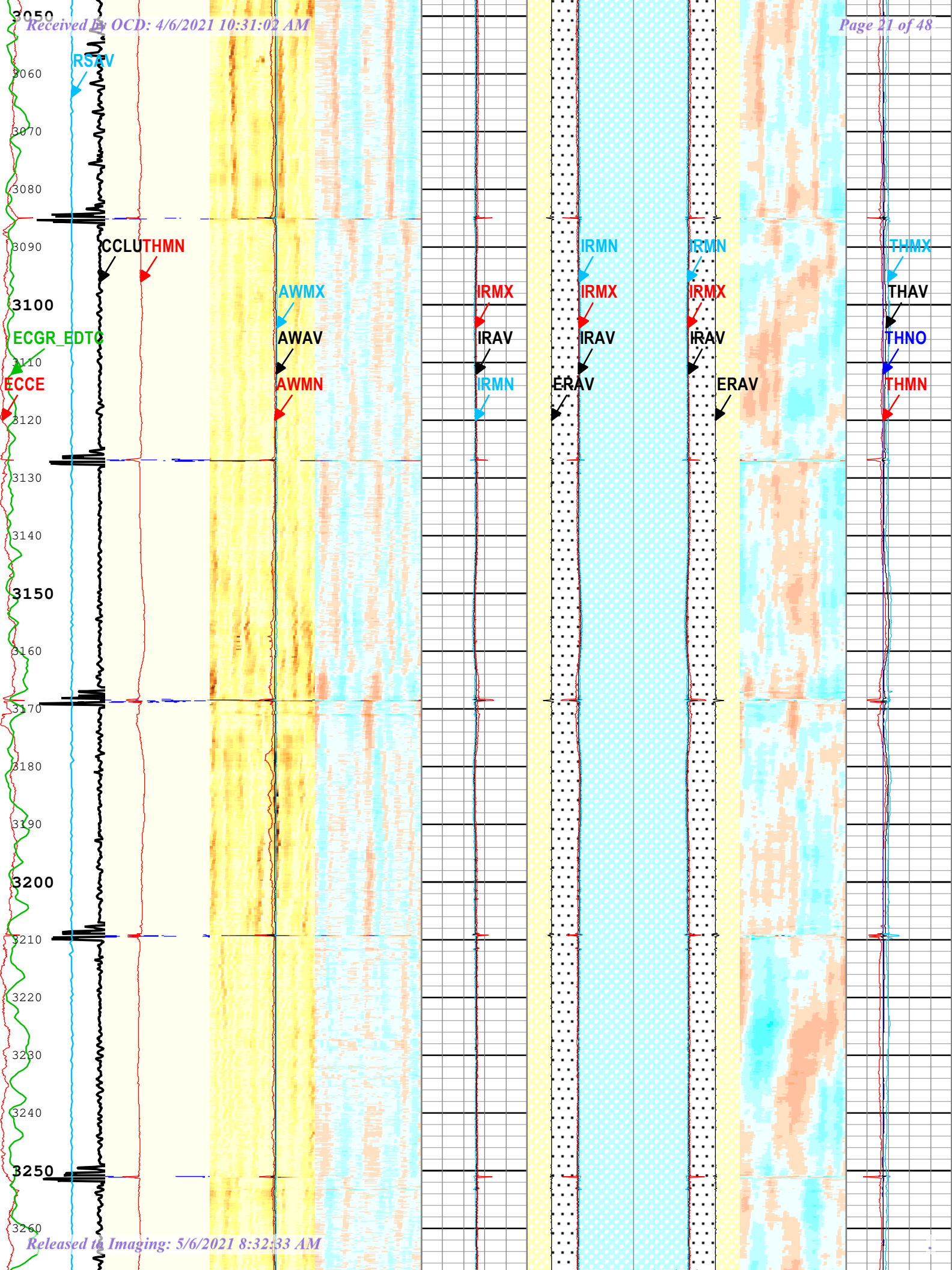


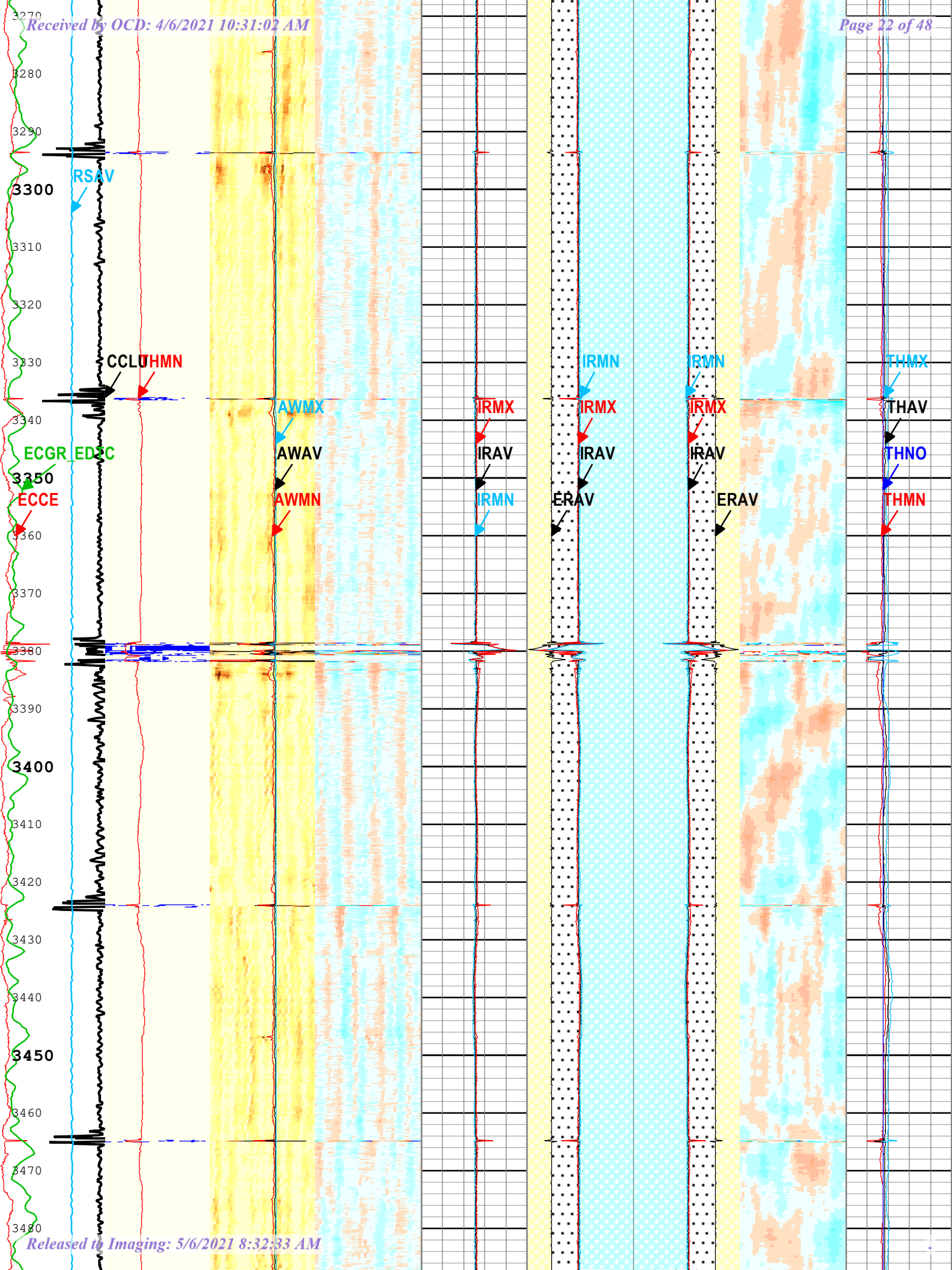


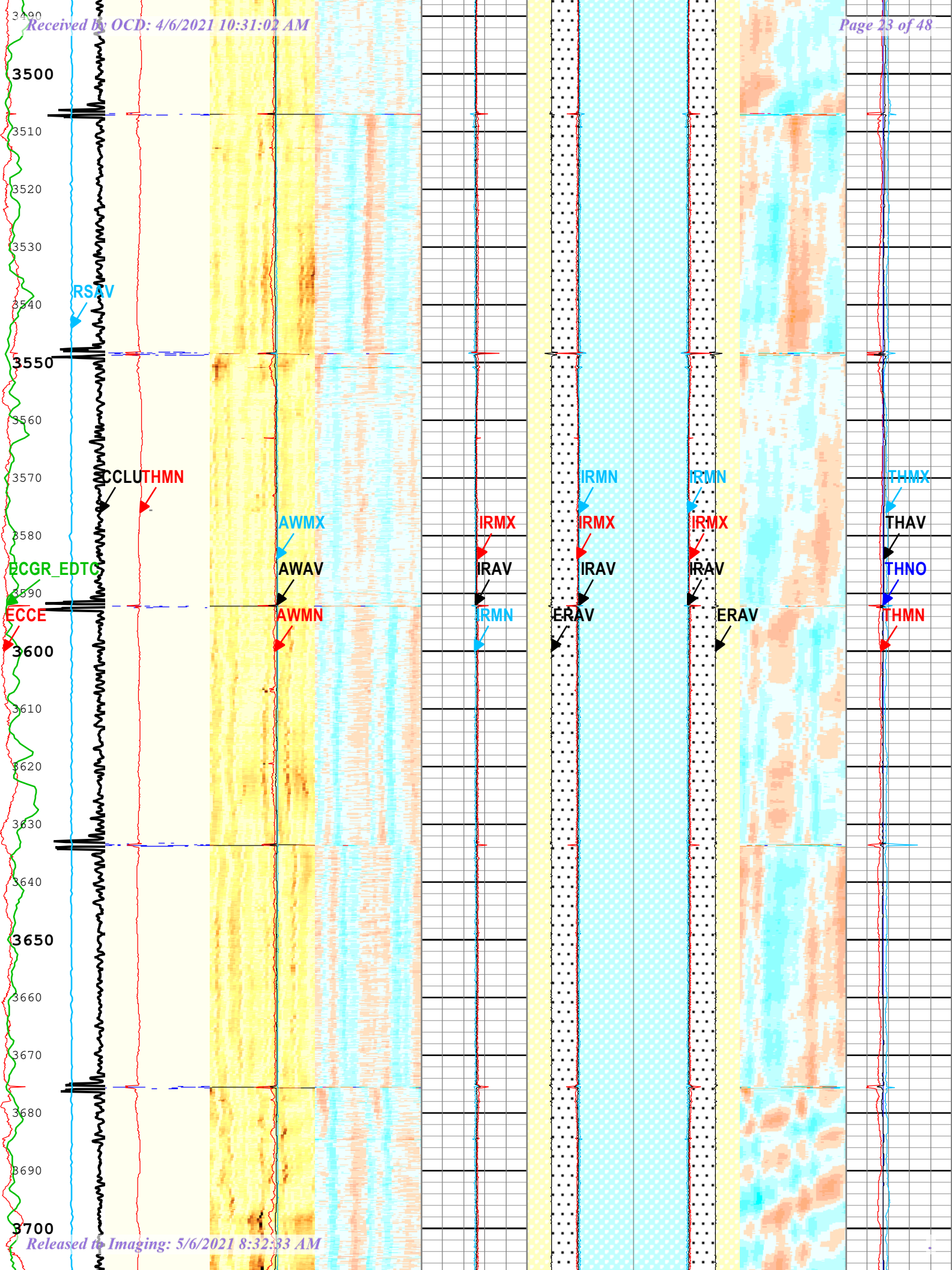


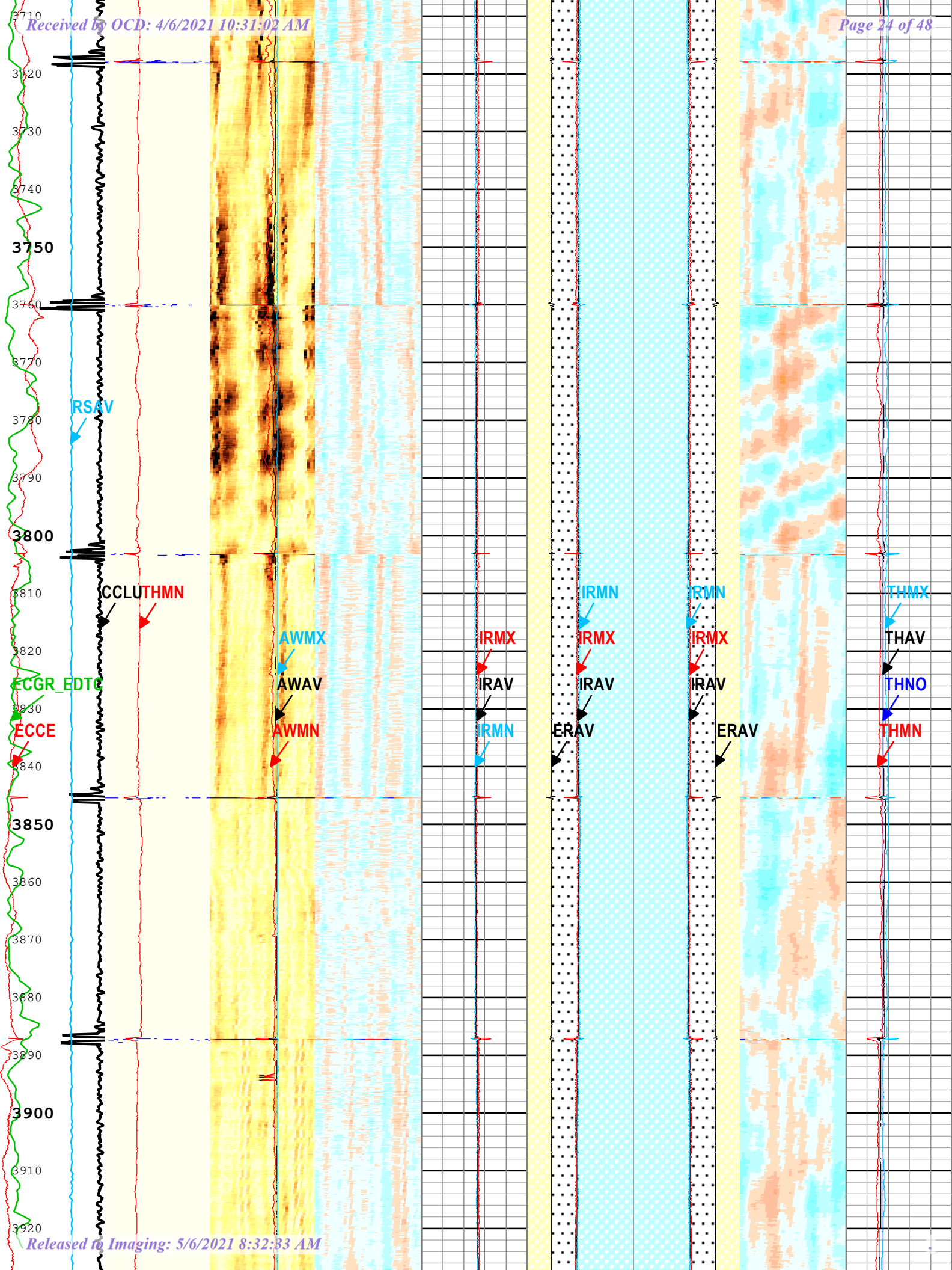


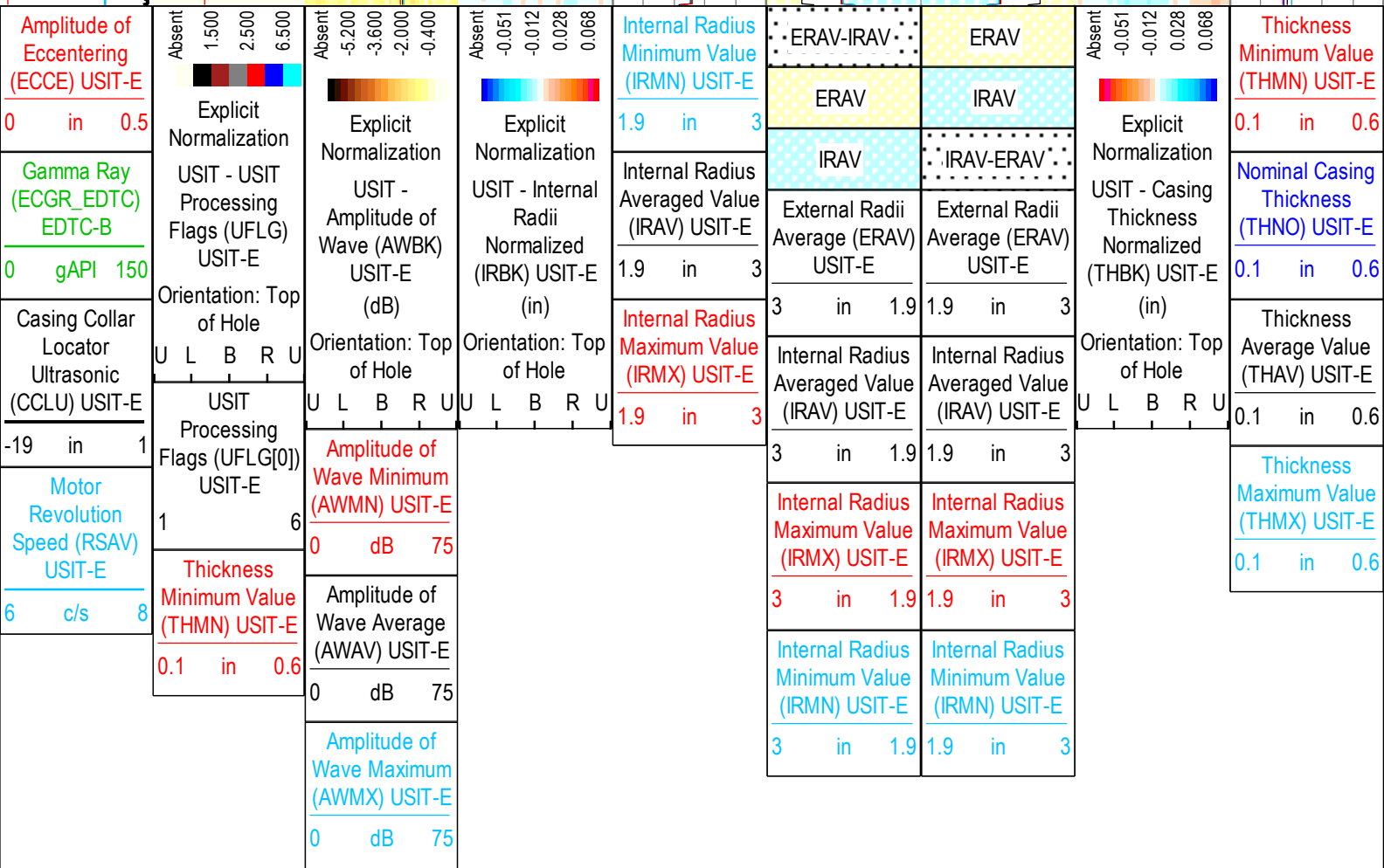












USIT Processing Flags (UFLG[0]) USIT-E

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

2 - UFLG 2 Value within [1.5 - 2.44] - :

3 - UFLG 2 Value within [2.44 - 2.5] - :

4 - UFLG 3 Value within [2.5 - 3.5] - :

5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :

6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error

Pulse Origin Not Detected

Spiky Waveform

WINLEN Error

Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 04-Feb-2020 22:24:15

Channel Processing Parameters				
1: 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	4089	ft
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	0.275	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	55000	psi
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal

DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	Page 26 of 48
DTMD	Borehole Fluid Slowness	Borehole	181	us/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)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	16.95	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	2.01	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	25	1628
BS	7.875	1628	3944

All depth are actual.

Tool Control Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	75	V
HRES	Horizontal Resolution	USIT-E	10 deg	
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 1.5 in	
VRES	Vertical Resolution	USIT-E	1.5 in	
WINB	Window Begin Time	USIT-E	28.18	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
WINE	68.18	04-Feb-2020 12:54:34	04-Feb-2020 13:10:39	3944.45	3263.89
WINE	70.35	04-Feb-2020 13:10:39	04-Feb-2020 14:27:35	3263.89	-5.72

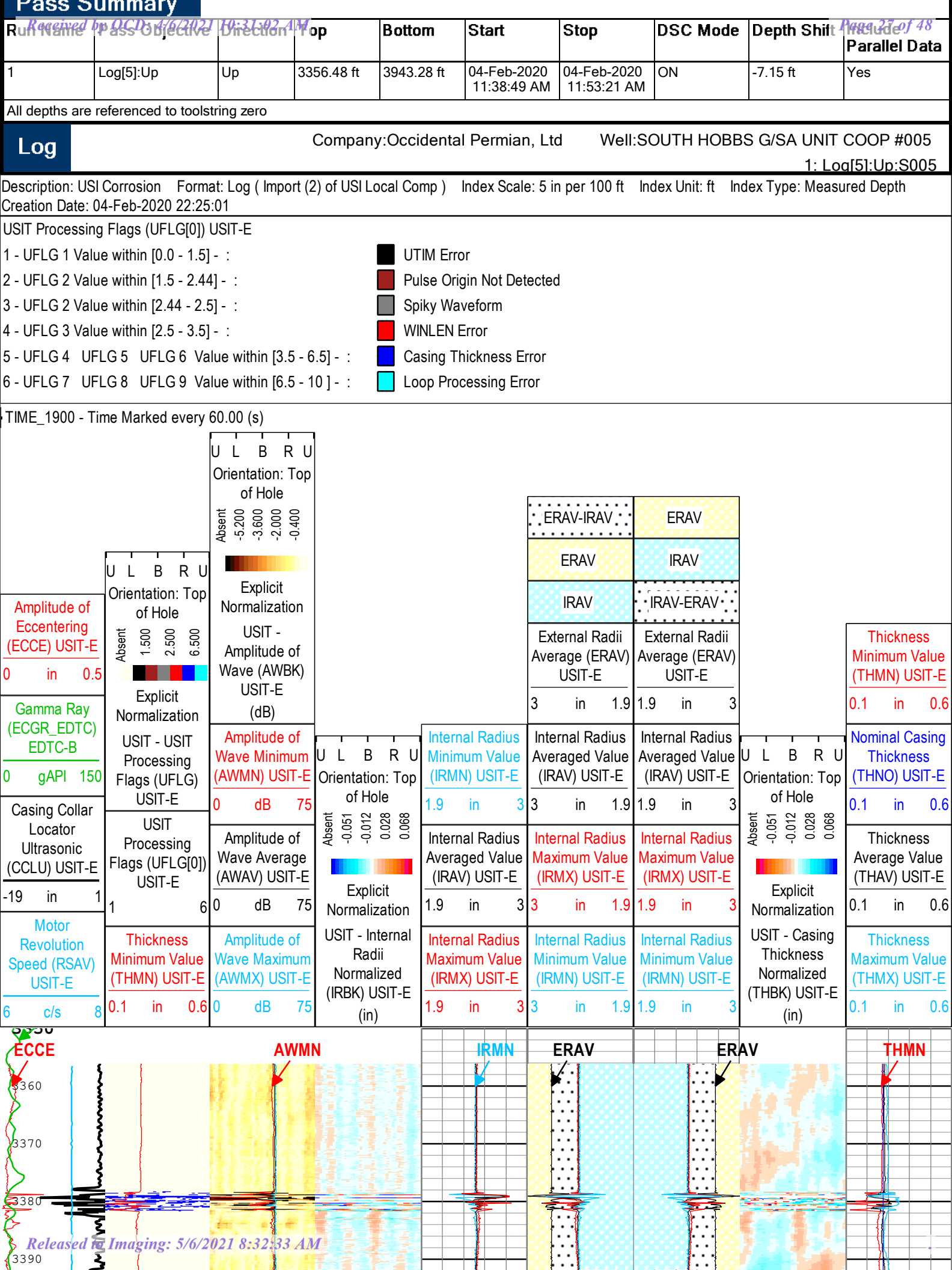
All depth are at tool zero.

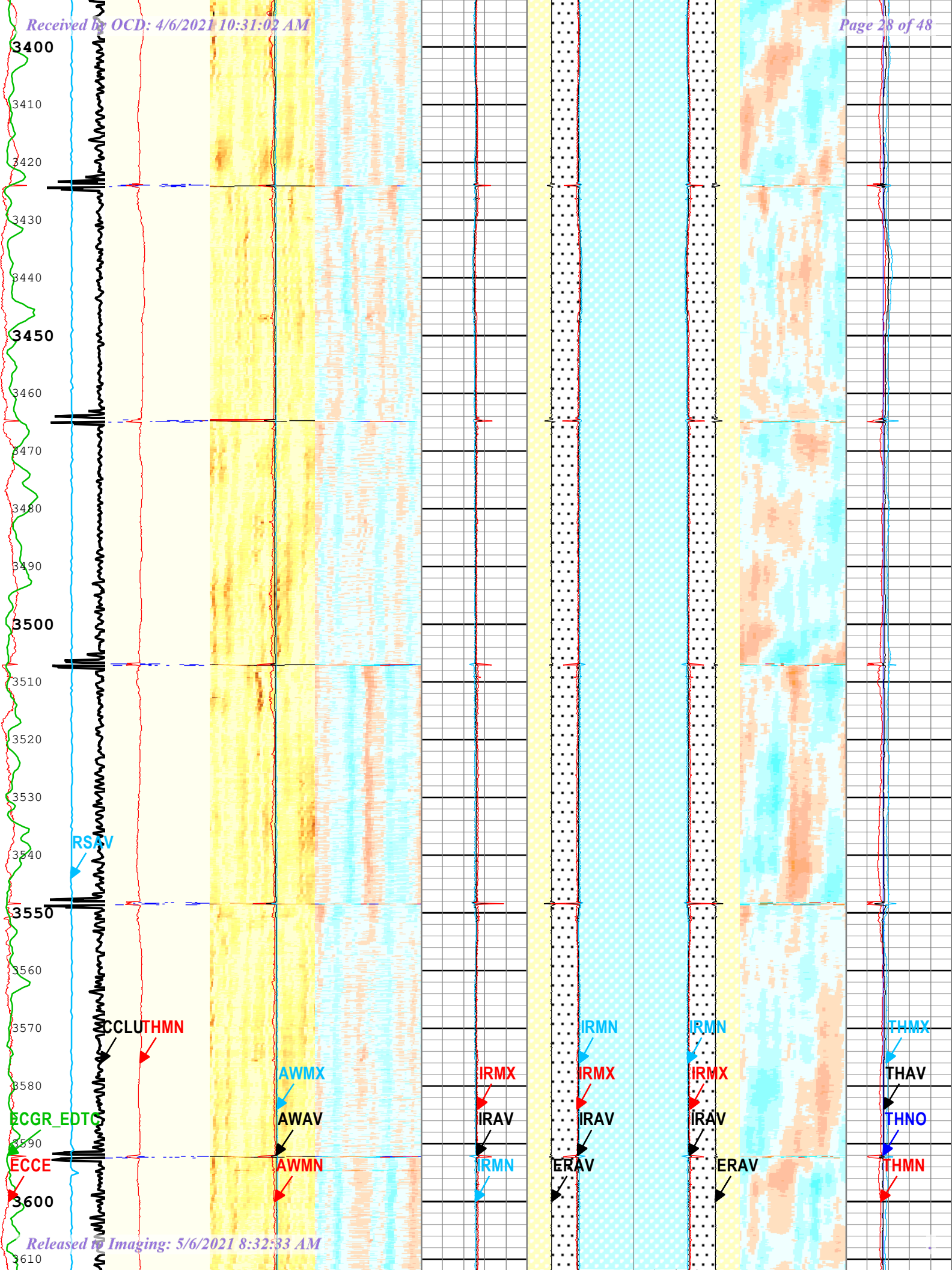
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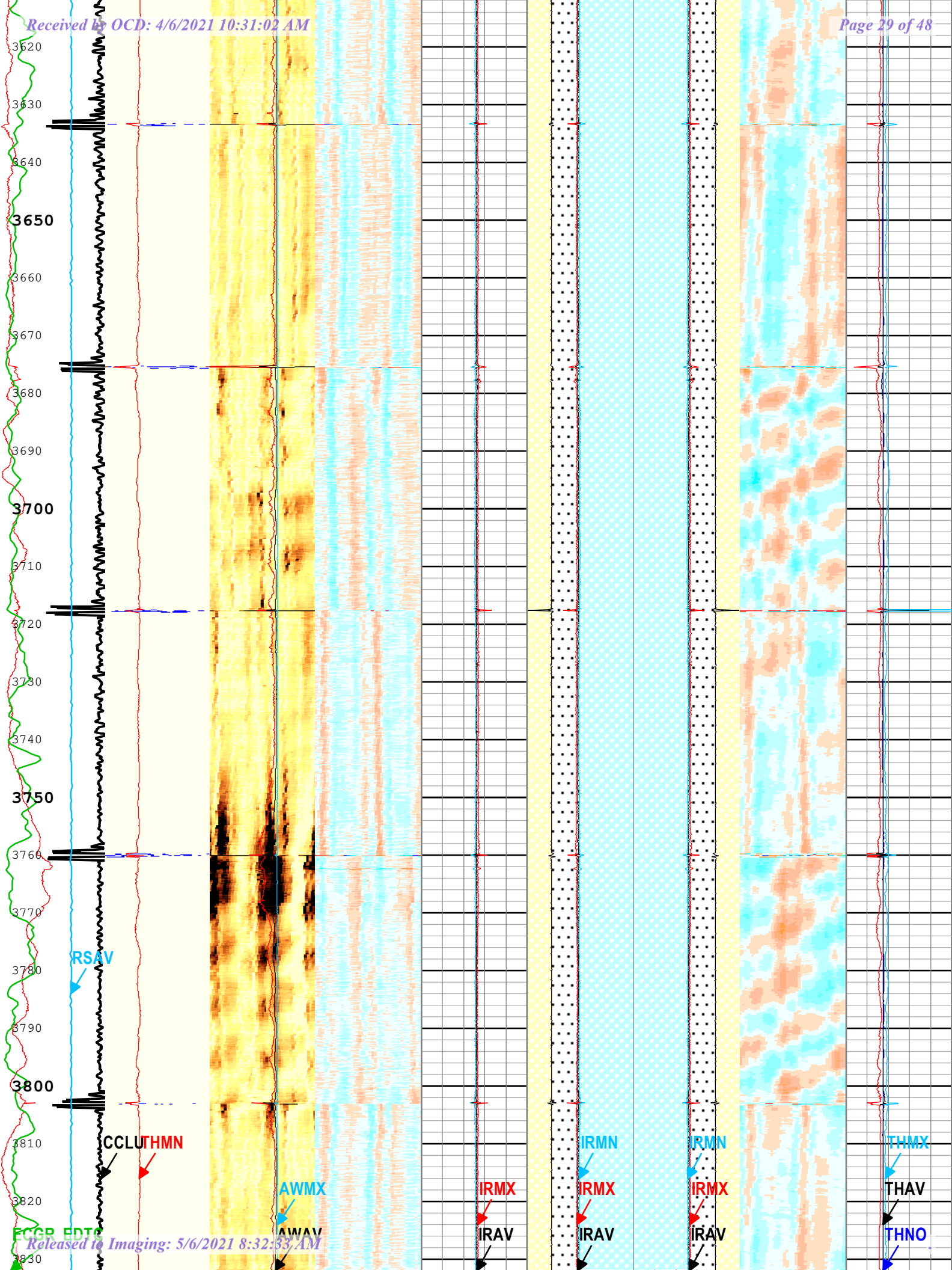
Repeat Pass 5" = 100'

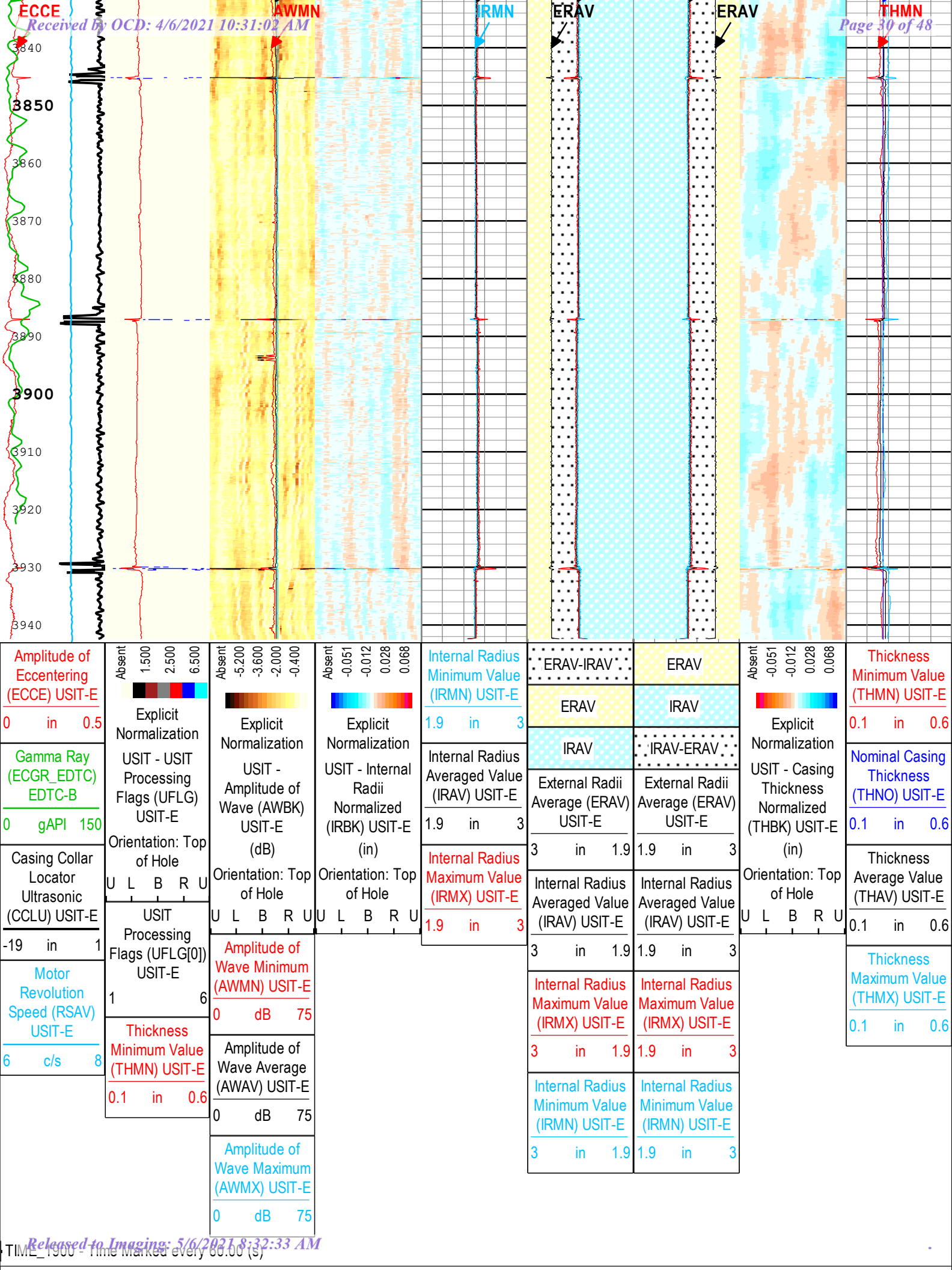
Software Version

Acquisition System	Version
Maxwell 2019.2	9.2.113335.3100
Applied Acoustic Imaging: 5/6/2021 8:32:33 AM	Wireline_NPD-PMCT-2019.2_9.2.113766









- | | |
|---|--|
| 1 - UFLG 1 Value within [0.0 - 1.5] - : |  UTIM Error |
| 2 - UFLG 2 Value within [1.5 - 2.44] - : |  Pulse Origin Not Detected |
| 3 - UFLG 2 Value within [2.44 - 2.5] - : |  Spiky Waveform |
| 4 - UFLG 3 Value within [2.5 - 3.5] - : |  WINLEN Error |
| 5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : |  Casing Thickness Error |
| 6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : |  Loop Processing Error |

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
 Creation Date: 04-Feb-2020 22:25:01

Channel Processing Parameters

1: 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	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	4089	ft
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	0.275	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	55000	psi
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	181	us/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)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	16.95	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	2.01	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	75	V
HRES	Horizontal Resolution	USIT-E	10 deg	
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 1.5 in	
VRRES	Vertical Resolution	USIT-E	1.5 in	

1

Hi-Resolution Pass 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2019.2	9.2.113335.3100
Application Patch	Wireline_NPD-PMCT-2019.2_9.2.113766

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[10]:Up	Up	2448.48 ft	2595.05 ft	04-Feb-2020 3:04:15 PM	04-Feb-2020 3:11:49 PM	ON	-5.73 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Occidental Permian, Ltd	Well:SOUTH HOBBS G/SA UNIT COOP #005
		1: Log[10]:Up:S005

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 04-Feb-2020 22:25:12

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 - 2.44] - :

3 - UFLG 2 Value within [2.44 - 2.5] - :

4 - UFLG 3 Value within [2.5 - 3.5] - :

5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :

6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error

Pulse Origin Not Detected

Spiky Waveform

WINLEN Error

Casing Thickness Error

Loop Processing Error

Amplitude of Eccentering (ECCE) USIT-E

0 in 0.5

Gamma Ray (ECGR_EDTC) EDTC-B

0 gAPI 150

Casing Collar Locator Ultrasonic (CCLU) USIT-E

-19 in 1

Motor Revolution Speed (RSAV) USIT-E

6 r/c 8

Orientation: Top of Hole

Explicit Normalization

USIT - USIT Processing Flags (UFLG) USIT-E

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

Thickness Minimum Value (THMN) USIT-E

Amplitude of Wave Maximum (AWMX) USIT-E

Orientation: Top of Hole

Explicit Normalization

USIT - Internal Radii Normalized (IRBK) USIT-E

Orientation: Top of Hole

Explicit Normalization

Internal Radius Minimum Value (IRMN) USIT-E

Internal Radius Maximum Value (IRMX) USIT-E

Internal Radius Minimum Value (IRMN) USIT-E

Orientation: Top of Hole

Explicit Normalization

USIT - Casing Thickness Normalized (THBK) USIT-E

Thickness Minimum Value (THMN) USIT-E

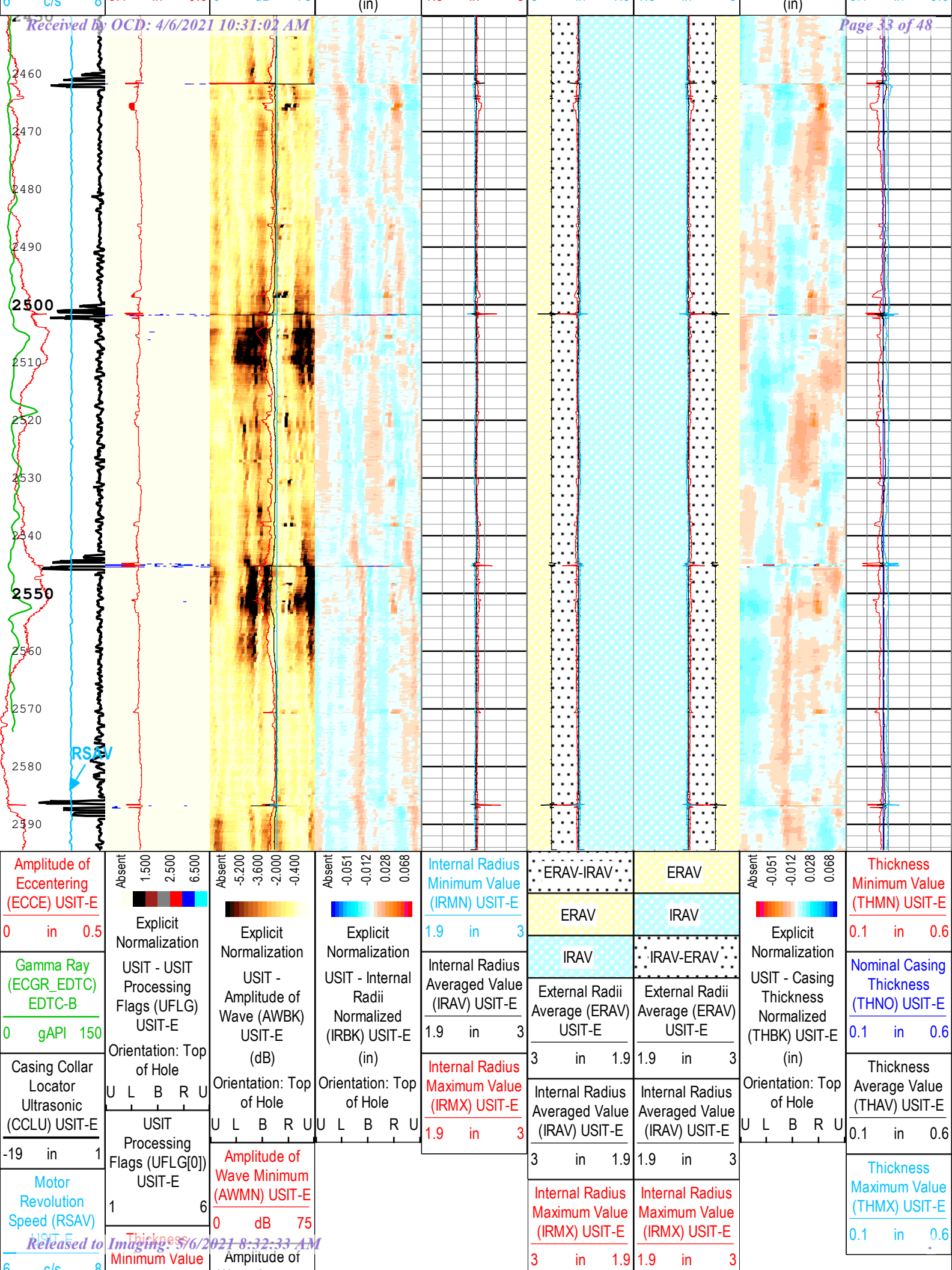
0.1 in 0.6

Thickness Average Value (THAV) USIT-E

0.1 in 0.6

Thickness Maximum Value (THMX) USIT-E

0.1 in 0.6



Received by	(THMN) USIT-E	Wave Average
0.1	in	0.6
0	dB	75
Amplitude of Wave Maximum (AWMX) USIT-E		
0	dB	75

Internal Radius Minimum Value (IRMN) USIT-E	Internal Radius Minimum Value (IRMN) USIT-E
3 in 1.9	1.9 in 3

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 - 2.44] - :	Pulse Origin Not Detected
3 - UFLG 2 Value within [2.44 - 2.5] - :	Spiky Waveform
4 - UFLG 3 Value within [2.5 - 3.5] - :	WINLEN Error
5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :	Casing Thickness Error
6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :	Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
 Creation Date: 04-Feb-2020 22:25:12

Channel Processing Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
BAR(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	4089	ft
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	0.275	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	55000	psi
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	181	us/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)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	16.95	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	2.01	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB

EMXV	EMEX Voltage	USIT-E	75	V
HRES	Horizontal Resolution	USIT-E	10 deg	
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 0.6 in	
VRES	Vertical Resolution	USIT-E	0.6 in	
WINB	Window Begin Time	USIT-E	28.18	us
WINE	Window End Time	USIT-E	68.18	us

1

Hi-Resolution Pass 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2019.2	9.2.113335.3100
Application Patch	Wireline_NPD-PMCT-2019.2_9.2.113766

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[11]:Up	Up	1694.57 ft	1874.55 ft	04-Feb-2020 3:16:32 PM	04-Feb-2020 3:25:42 PM	ON	-5.88 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Occidental Permian, Ltd Well:SOUTH HOBBS G/SA UNIT COOP #005

1: Log[11]:Up:S005

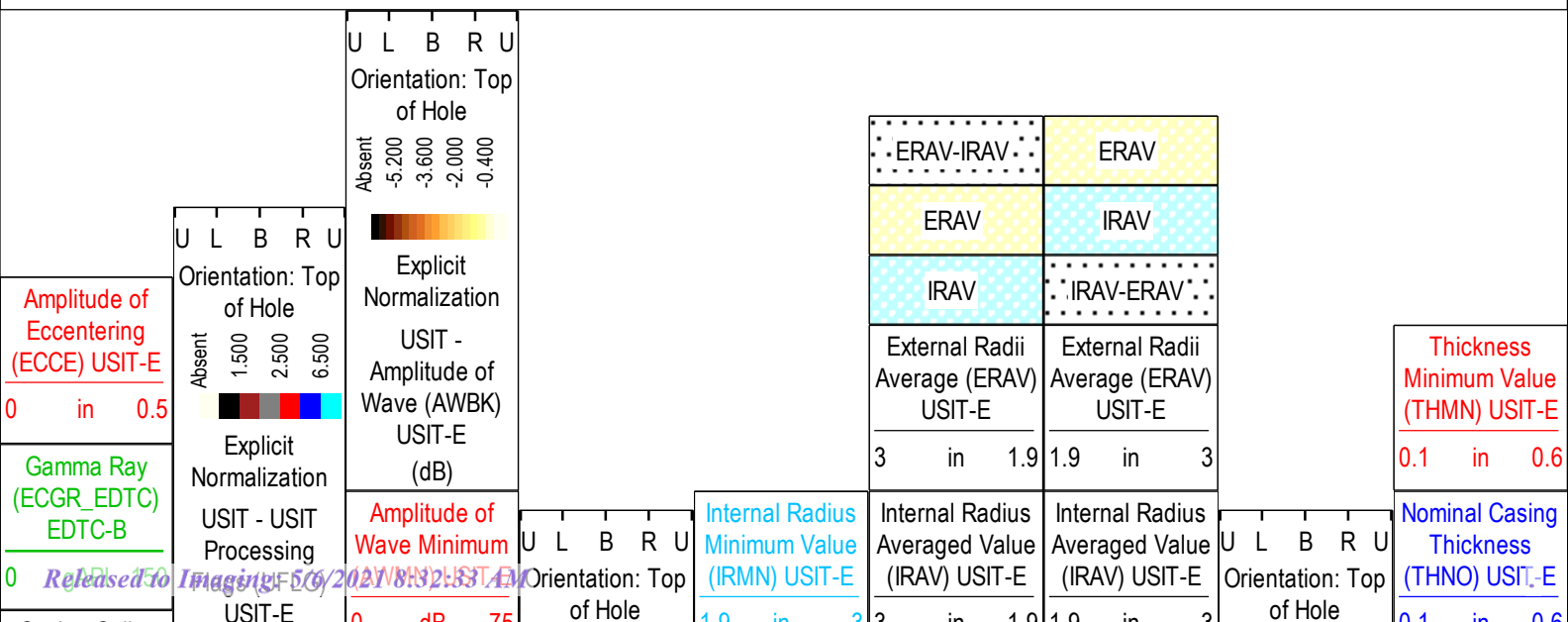
Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

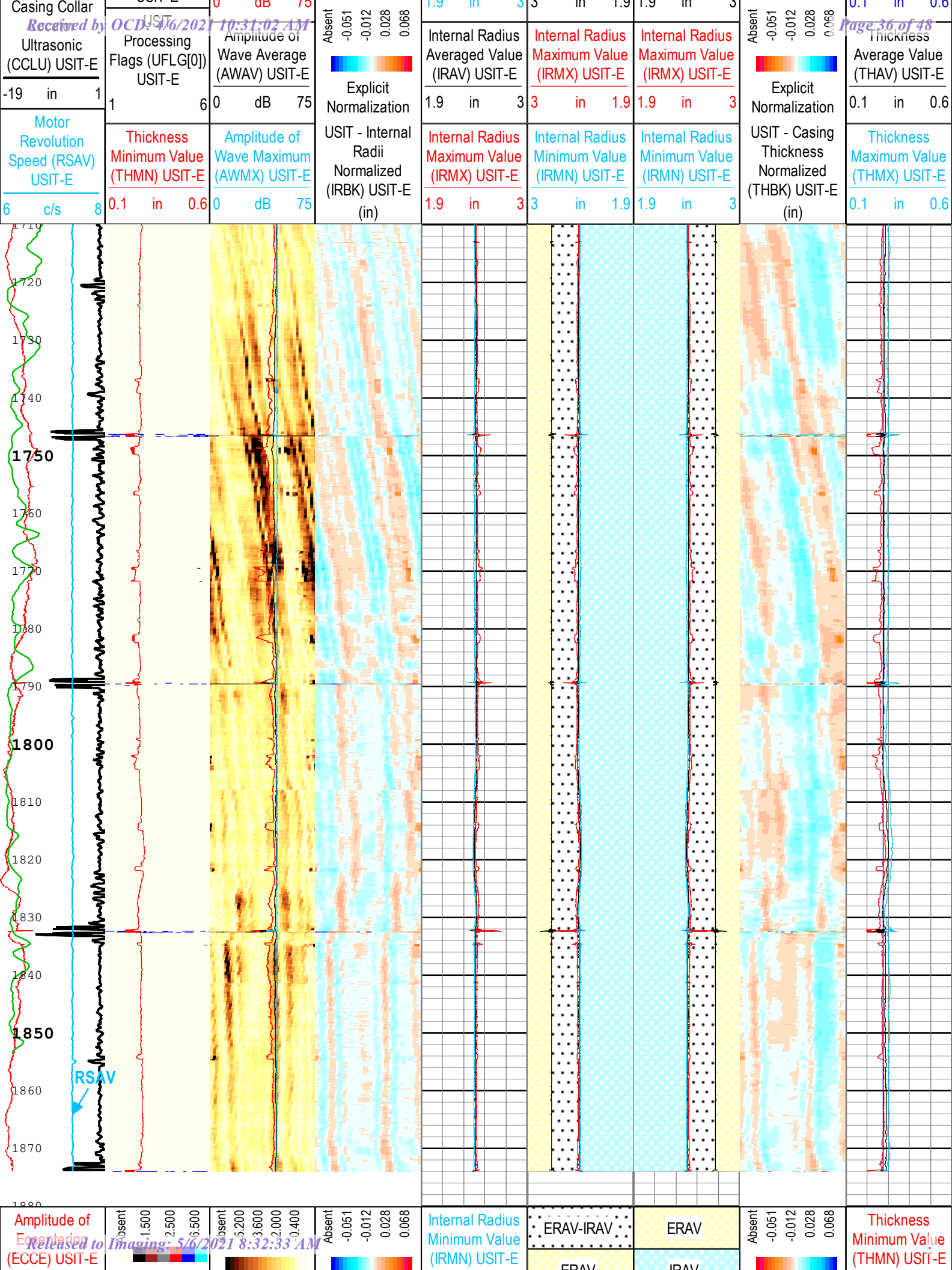
Creation Date: 04-Feb-2020 22:25:19

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 - 2.44] - : |  Pulse Origin Not Detected |
| 3 - UFLG 2 Value within [2.44 - 2.5] - : |  Spiky Waveform |
| 4 - UFLG 3 Value within [2.5 - 3.5] - : |  WINLEN Error |
| 5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : |  Casing Thickness Error |
| 6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : |  Loop Processing Error |





Received by QCD: 4/6/2021 10:51:02 AM Gamma Ray (ECGR_EDTC) EDTC-B 0 gAPI 150 Casing Collar Locator Ultrasonic (CCLU) USIT-E -19 in 1 Motor Revolution Speed (RSAV) USIT-E 6 c/s 8	Explicit Normalization USIT - USIT Processing Flags (UFLG) USIT-E Orientation: Top of Hole U L B R U USIT Processing Flags (UFLG[0]) USIT-E 1 6 Thickness Minimum Value (THMN) USIT-E 0.1 in 0.6	Explicit Normalization USIT - Amplitude of Wave (AWBK) USIT-E (dB) Orientation: Top of Hole U L B R U Amplitude of Wave Minimum (AWMN) USIT-E 0 dB 75 Amplitude of Wave Average (AWAV) USIT-E 0 dB 75 Amplitude of Wave Maximum (AWMX) USIT-E 0 dB 75	Explicit Normalization USIT - Internal Radii Normalized (IRBK) USIT-E (in) Orientation: Top of Hole U L B R U	1.9 in 3 Internal Radius Averaged Value (IRAV) USIT-E 1.9 in 3 Internal Radius Maximum Value (IRMX) USIT-E 1.9 in 3	ERAV IRAV External Radii Average (ERAV) USIT-E 3 in 1.9 Internal Radius Averaged Value (IRAV) USIT-E 3 in 1.9 Internal Radius Maximum Value (IRMX) USIT-E 3 in 1.9 Internal Radius Minimum Value (IRMN) USIT-E 3 in 1.9	IRAV-ERAV External Radii Average (ERAV) USIT-E 1.9 in 3 Internal Radius Averaged Value (IRAV) USIT-E 1.9 in 3 Internal Radius Maximum Value (IRMX) USIT-E 1.9 in 3 Internal Radius Minimum Value (IRMN) USIT-E 1.9 in 3	Explicit Normalization USIT - Casing Thickness Normalized (THBK) USIT-E (in) Orientation: Top of Hole U L B R U	0.1 in 0.6 Nominal Casing Thickness (THNO) USIT-E Thickness Average Value (THAV) USIT-E 0.1 in 0.6 Thickness Maximum Value (THMX) USIT-E 0.1 in 0.6

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 - 2.44] - : | Pulse Origin Not Detected |
| 3 - UFLG 2 Value within [2.44 - 2.5] - : | Spiky Waveform |
| 4 - UFLG 3 Value within [2.5 - 3.5] - : | WINLEN Error |
| 5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : | Casing Thickness Error |
| 6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : | Loop Processing Error |

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 04-Feb-2020 22:25:19

Channel Processing Parameters				
1: Parameters				
Parameter	Description	Tool	Value	Unit
BAR(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	4089	ft
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	0.275	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	55000	psi
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	181	us/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)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	RB	

MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	16.95	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	2.01	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	75	V
HRES	Horizontal Resolution	USIT-E	10 deg	
ICE2_ACQ	Ultrasonic ICE2 Acquisition	USIT-E	Yes	
ULOG	Logging Objective	USIT-E	MEASUREMENT	
USFR	Ultrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 0.6 in	
VRES	Vertical Resolution	USIT-E	0.6 in	
WINB	Window Begin Time	USIT-E	28.18	us
WINE	Window End Time	USIT-E	68.18	us

1

Hi-Resolution Pass 5" = 100'

Software Version

Acquisition System	Version
Maxwell 2019.2	9.2.113335.3100
Application Patch	Wireline_NPD-PMCT-2019.2_9.2.113766

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[7]:Up	Up	3688.79 ft	3943.63 ft	04-Feb-2020 12:15:01 PM	04-Feb-2020 12:27:23 PM	ON	-6.94 ft	Yes

All depths are referenced to toolstring zero

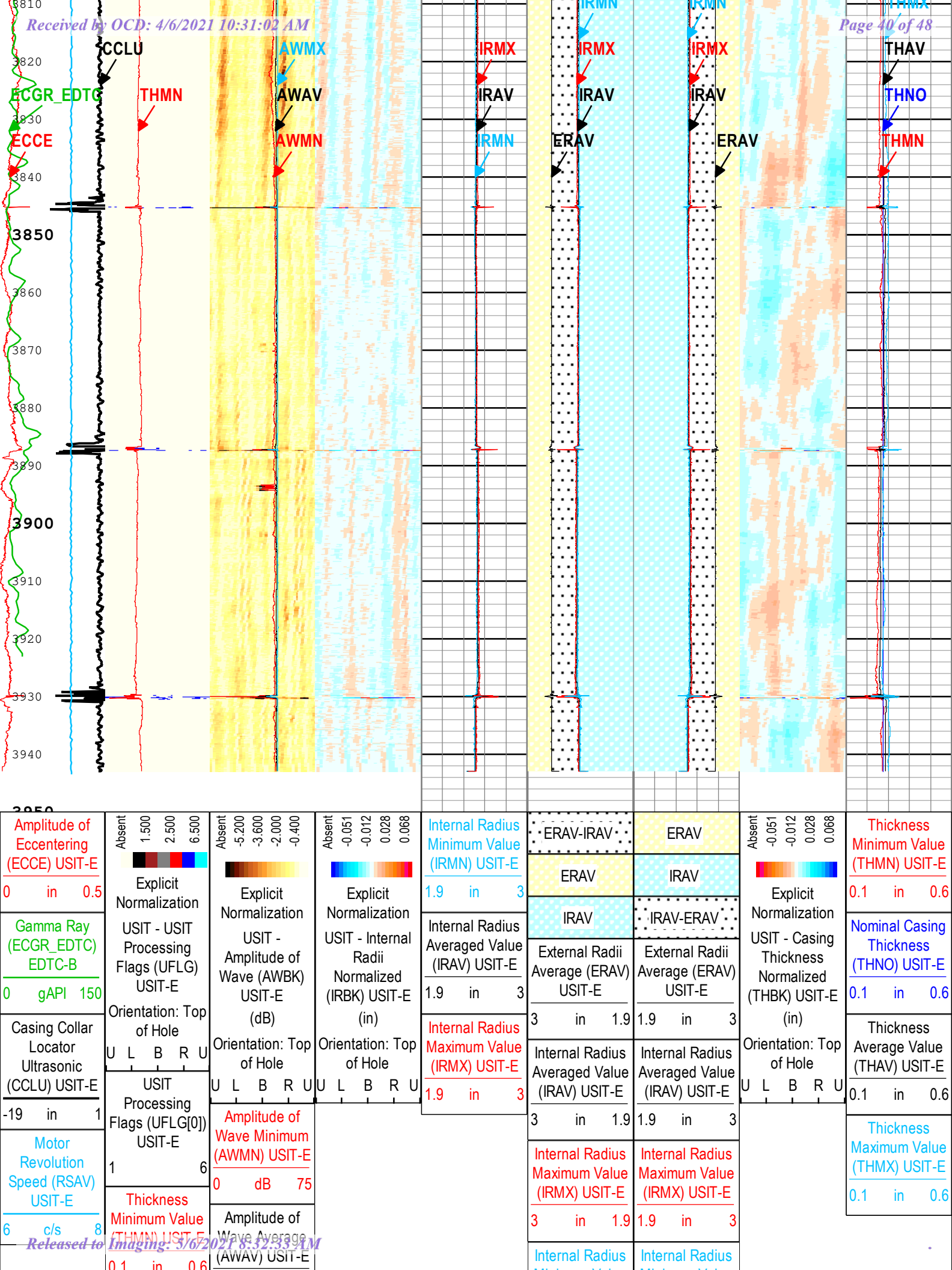
Log	Company:Occidental Permian, Ltd	Well:SOUTH HOBBS G/SA UNIT COOP #005
		1: Log[7]:Up:S005

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 04-Feb-2020 22:25:27

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 - 2.44] - :	Pulse Origin Not Detected
3 - UFLG 2 Value within [2.44 - 2.5] - :	Spiky Waveform
4 - UFLG 3 Value within [2.5 - 3.5] - :	WINLEN Error
5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :	Casing Thickness Error
6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :	Loop Processing Error

[illegible]



0.1 in 0.0

Received by OCD: 4/6/2021 10:31:02 AM

Amplitude of Wave Maximum (AWMX) USIT-E

0 dB 75

Minimum Value (IRMN) USIT-E

3 in 1.9

Minimum Value (IRMN) USIT-E

1.9 in 3

Page 41 of 48

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

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

2 - UFLG 2 Value within [1.5 - 2.44] - :

3 - UFLG 2 Value within [2.44 - 2.5] - :

4 - UFLG 3 Value within [2.5 - 3.5] - :

5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :

6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error

Pulse Origin Not Detected

Spiky Waveform

WINLEN Error

Casing Thickness Error

Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 04-Feb-2020 22:25:27

Channel Processing Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
BAR(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	4089	ft
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	0.275	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	55000	psi
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	181	us/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)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	16.95	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	2.01	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters

1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	75	V
HRES	Horizontal Resolution	USIT-E	10 deg	

1

Software Version	
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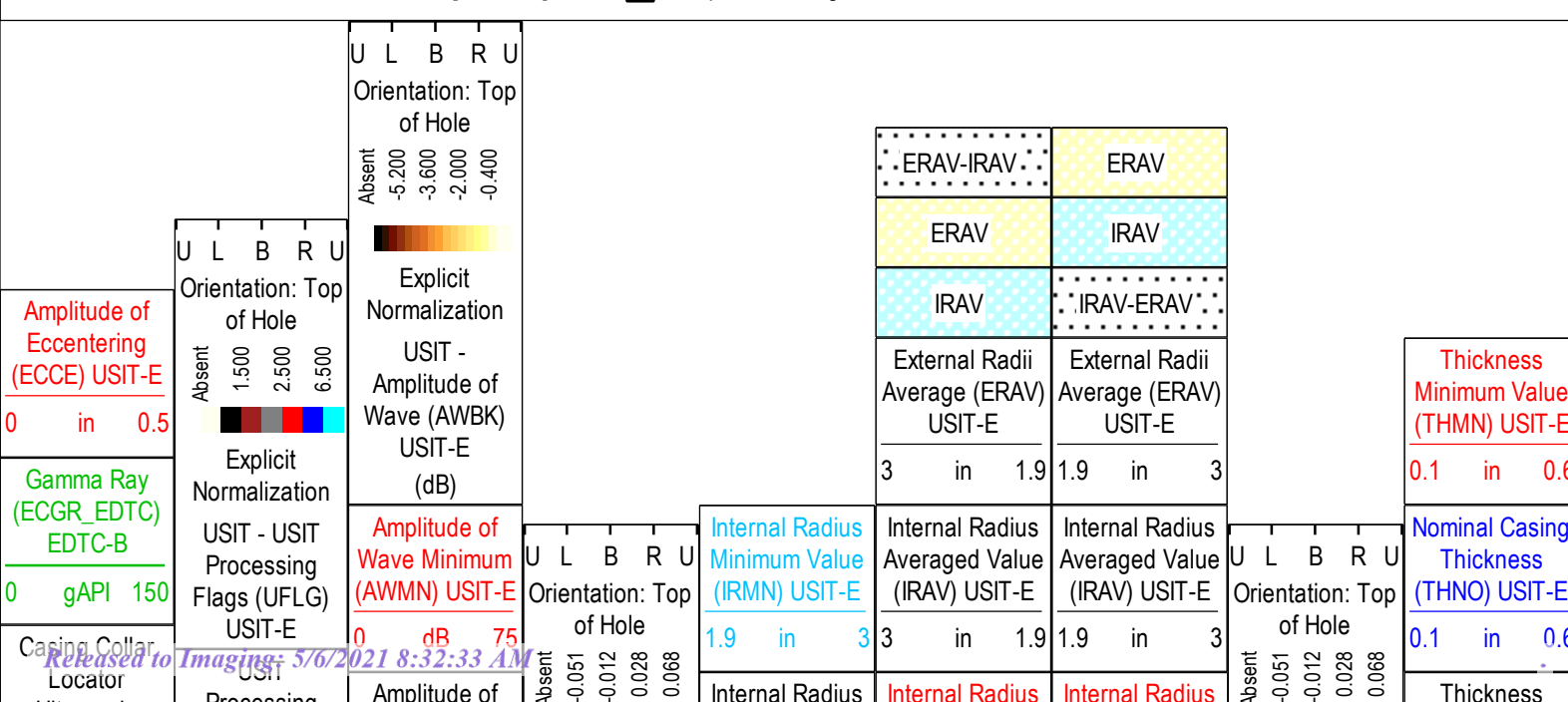
Pass Summary	
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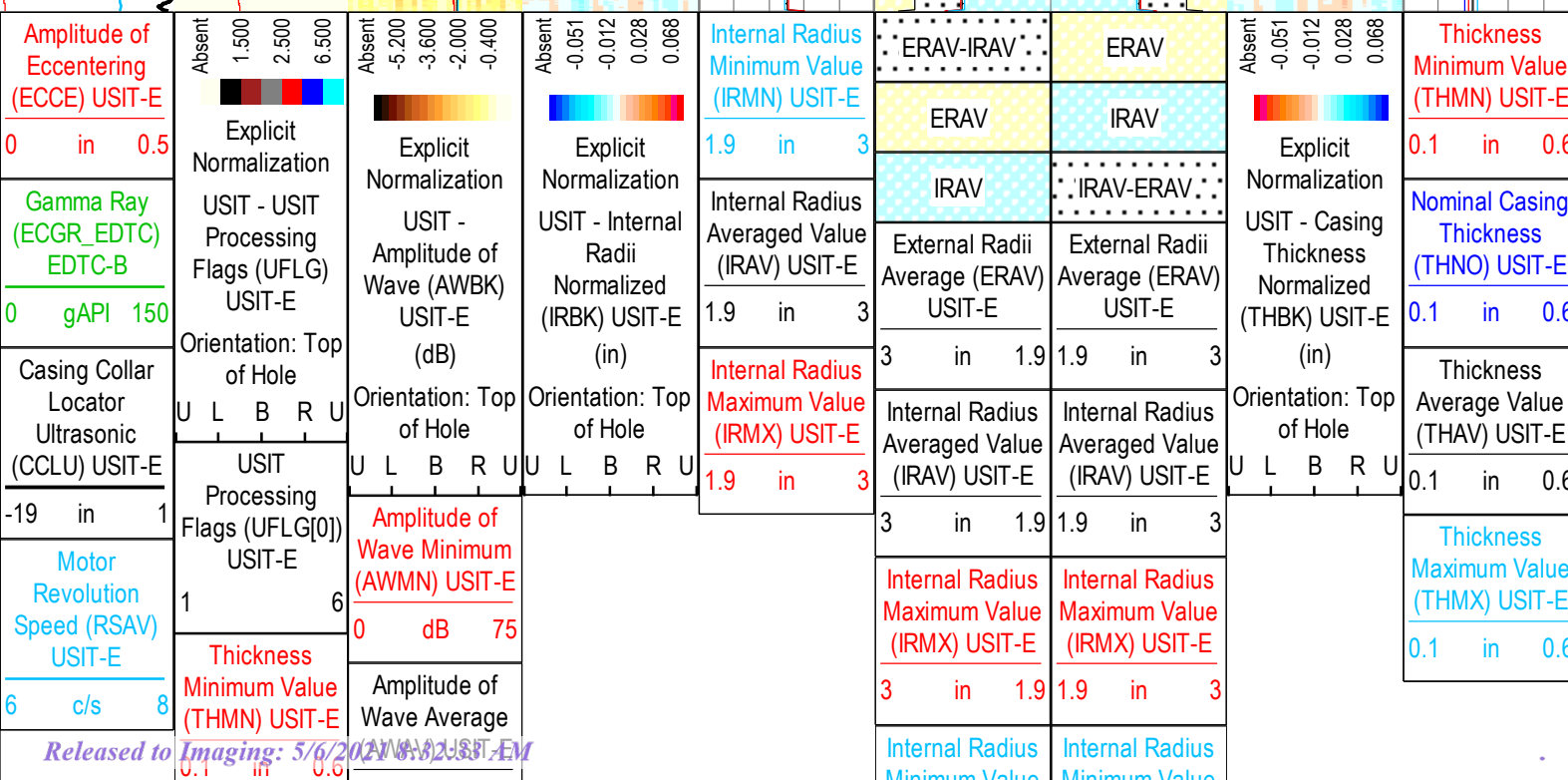
All depths are referenced to toolstring zero

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 04-Feb-2020 22:25:35

USIT Processing Flags (UFLG[0])	USIT-E
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1 - UFLG 1 Value within [0.0 - 1.5] - :	 UTIM Error
2 - UFLG 2 Value within [1.5 - 2.44] - :	 Pulse Origin Not Detected
3 - UFLG 2 Value within [2.44 - 2.5] - :	 Spiky Waveform
4 - UFLG 3 Value within [2.5 - 3.5] - :	 WINLEN Error
5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :	 Casing Thickness Error
6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :	 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 - 2.44] - :	 Pulse Origin Not Detected
3 - UFLG 2 Value within [2.44 - 2.5] - :	 Spiky Waveform
4 - UFLG 3 Value within [2.5 - 3.5] - :	 WINLEN Error
5 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :	 Casing Thickness Error
6 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :	 Loop Processing Error

TIME_1900 - Time Marked every 60.00 (s)

Description: USI Corrosion Format: Log (Import (2) of USI Local Comp) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 04-Feb-2020 22:25:35

Channel Processing Parameters	
Channel Processing Parameters	

1: 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	7.875	in
CBLO	Casing Bottom (Logger)	WLSESSION	4089	ft
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	0.275	in
CYSTLGR	Casing Yield Strength - Zoned along logger depths	WLSESSION	55000	psi
DFD	Drilling Fluid Density	Borehole	8.4	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	181	us/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)	
HEMA	Hematite Presence Flag	Borehole	No	
IMAR	Image Rotation	USIT-E	RB	
MEAS_WLEN	Tcube Processing Window Length in Measurement Mode	USIT-E	16.95	us
MUD_N_FRP	Free Pipe Mud Normalization Factor	USIT-E	1.29	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	USIT-E	0.1	Mrayl
USI_FVEL_SEL	USI Fluid Velocity Selection	USIT-E	Automatic	
USI_ZMUD_SEL	USI Mud Impedance Selection	USIT-E	FreePipe Norm.	
ZMUD	Acoustic Impedance of Mud	Borehole	2.01	Mrayl
ZTCM	Acoustic Impedance Threshold for Cement	USIT-E	2.6	Mrayl
ZTGS	Acoustic Impedance Threshold for Gas	USIT-E	0.3	Mrayl

Tool Control Parameters	
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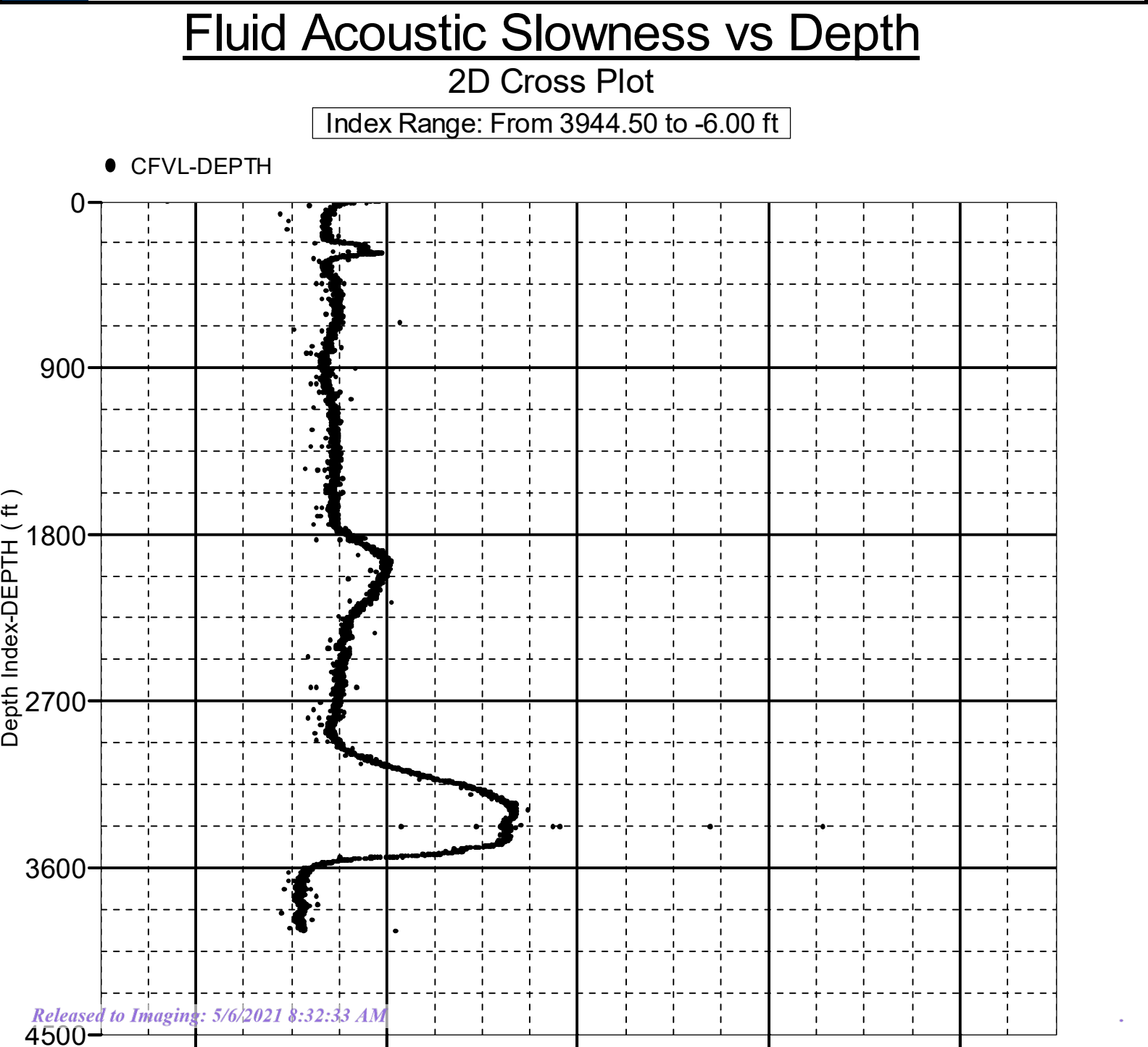
1: Parameters

Parameter	Description	Tool	Value	Unit
AGMN	Minimum Gain of Cartridge	USIT-E	-12	dB
AGMX	Maximum Gain of Cartridge	USIT-E	48	dB
EMXV	EMEX Voltage	USIT-E	75	V
HRES	Horizontal Resolution	USIT-E	10 deg	

ULOG	ULtrasonic ICE2 Acquisition	USIT-E	Yes	
USFR	ULtrasonic Sampling Frequency	USIT-E	666667	Hz
UPAT	USIT Emission Pattern	USIT-E	Pattern 750 KHz	
UWKM	USIT Working Mode	USIT-E	Uncompressed 10 deg at 0.6 in	
VRES	Vertical Resolution	USIT-E	0.6 in	
WINB	Window Begin Time	USIT-E	28.18	us
WINE	Window End Time	USIT-E	Time Zoned	us

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
WINE	68.18	04-Feb-2020 12:31:11	04-Feb-2020 12:33:11	3444.44	3410.39
WINE	70.35	04-Feb-2020 12:33:11	04-Feb-2020 12:38:04	3410.39	3331.67
All depth are at tool zero.					

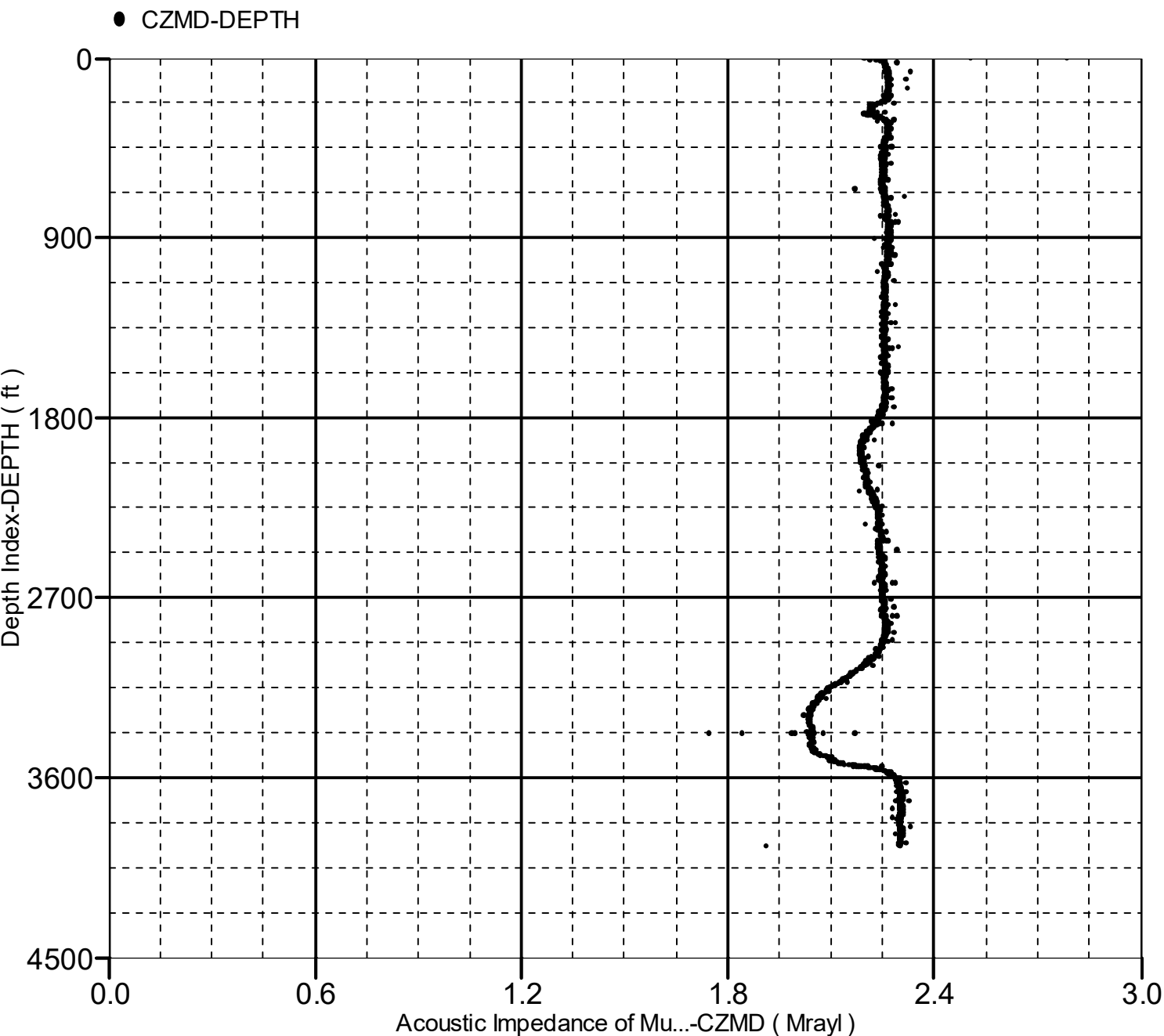
XYZ	Company:Occidental Permian, Ltd Well:SOUTH HOBBS G/SA UNIT COOP #005 1: Main[9]:Up:S005
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Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 3944.50 to -6.00 ft



Company:	Occidental Permian, Ltd	Schlumberger
Well:	SOUTH HOBBS G/SA UNIT COOP #005	
Field:	SOUTH HOBBS (GRAYBURG-SAN ANDRES)	
County:	LEA	
State:	NEW MEXICO	
Corrosion Print		
Gamma Ray		
Casing Collar Locator		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23074

CONDITIONS OF APPROVAL

Operator:	OCCIDENTAL PERMIAN LTD	P.O. Box 4294	Houston, TX772104294	OGRID:	157984	Action Number:	23074	Action Type:	C-103R
OCD Reviewer	Condition								
ksimmons	None								