

Submit a 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

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-10920
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Shell State
8. Well Number 13
9. OGRID Number 248440
10. Pool name or Wildcat 96108 SWD; Grayburg

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	
2. Name of Operator Western Refining Company, LP	
3. Address of Operator PO Box 1345 Jal, NM 88252	
4. Well Location	
Unit Letter L: 1980 feet from the S line and 660 feet from the W line	
Section 32 Township 23S Range 37E NMPM Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

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: Annual Radioactive Tracer Survey ☒	

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.

The annual radioactive tracer survey was conducted on Wednesday, 10/25/2023, and indicated all fluid is going into the perforated interval. There was no indication of channeling or fluid migration behind the casing. The following activities were performed during this operation:

1. MIRU Wireline
2. Tag TD @ 3,919'
3. Record base density log from TD to 2,500'
4. Inject Radioactive tracer material and follow downhole into perforations
5. Perform time drive survey
6. Record post base density log from TD to 2,500'
7. RDMO Wireline

Spud Date:

Rig Release Date:

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

SIGNATURE Jessica O'Brien TITLE Environmental Manager DATE October 27, 2023

Type or print name Jessica O'Brien E-mail address: jobrien@marathonpetroleum.com PHONE: (409) 454-3777
For State Use Only

APPROVED BY: Carl J. Chabaz TITLE Environmental Engineer DATE 11/01/2023

Conditions of Approval (if any):



R/A TRACER LOG INTERPRETATION

10/26/2023

PLANT: MARATHON WESTERN REFINING

C/O: WSP USA

WELL NAME: SHELL STATE 13 SWD

RE: Radioactive Tubing & Packer Survey ran on 10/25/2023

A Pre Survey Base Log was run from 3,919' to 2,491' to detect and record background gamma counts.

Iodine 131 was then ejected at a depth of 2,650' and pumped down the tubing and into the permitted interval. Overlapping logging passes tracked the R/A tracer material as it moved down in the wellbore. The R/A material was seen traveling down the tubing, past the packer, and exiting into the permitted injection interval.

The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

One Stationary Time Drive survey was run with the tool at 3,850'. No indications of upward migration were recorded.

A Post Survey Base log was then run from 3,919' to 2,491' and noted that all R/A material was flushed out of the wellbore into the permitted interval.

A handwritten signature in black ink, appearing to read "Wayne H. Dean III".

Wayne H. Dean III
Industrial Logging Department
7650 CR 48 North, Suite H
Rosharon, TX 77583



RADIOACTIVE TRACER SURVEY

Company MARATHON - WESTERN REFINING
Well SHELL STATE "13" SWD
Field LANGLEIE MATTIX
County LEA
State NM

Company MARATHON - WESTERN REFINING

Well SHELL STATE "13" SWD

Field LANGLEIE MATTIX

County LEA State NM

Location: API # : 30-025-10920

NW 1/4 & SW 1/4

SEC 32 TWP 23-S RGE 37-E

Permanent Datum N/A Elevation 3304'
Log Measured From N/A Above Perm Datum
Drilling Measured From N/A

Elevation

K.B. N/A
D.F. N/A
G.L. 3304'

Date 25-OCT-2023

Run Number 1

Depth Driller 3926'

Depth Logger 3920'

Bottom Logged Interval 3919'

Top Log Interval 2490'

Open Hole Size N/A

Type Fluid FRESH WATER

Density / Viscosity N/A

Max. Recorded Temp. NOT LOGGED

Estimated Cement Top NOT LOGGED

Time Well Ready 08:00

Time Logger on Bottom 10:41

Equipment Number 106

Location ROSHARON, TX

Recorded By V. Fattakhov/S. Hatchett

Witnessed By P. ENRIQUEZ

Bit From To

Size SEE

Weight WELL

DIA. D/A

Top Bottom

Size Wgt/Ft

Slurp String

Prod String

Production String

Liner

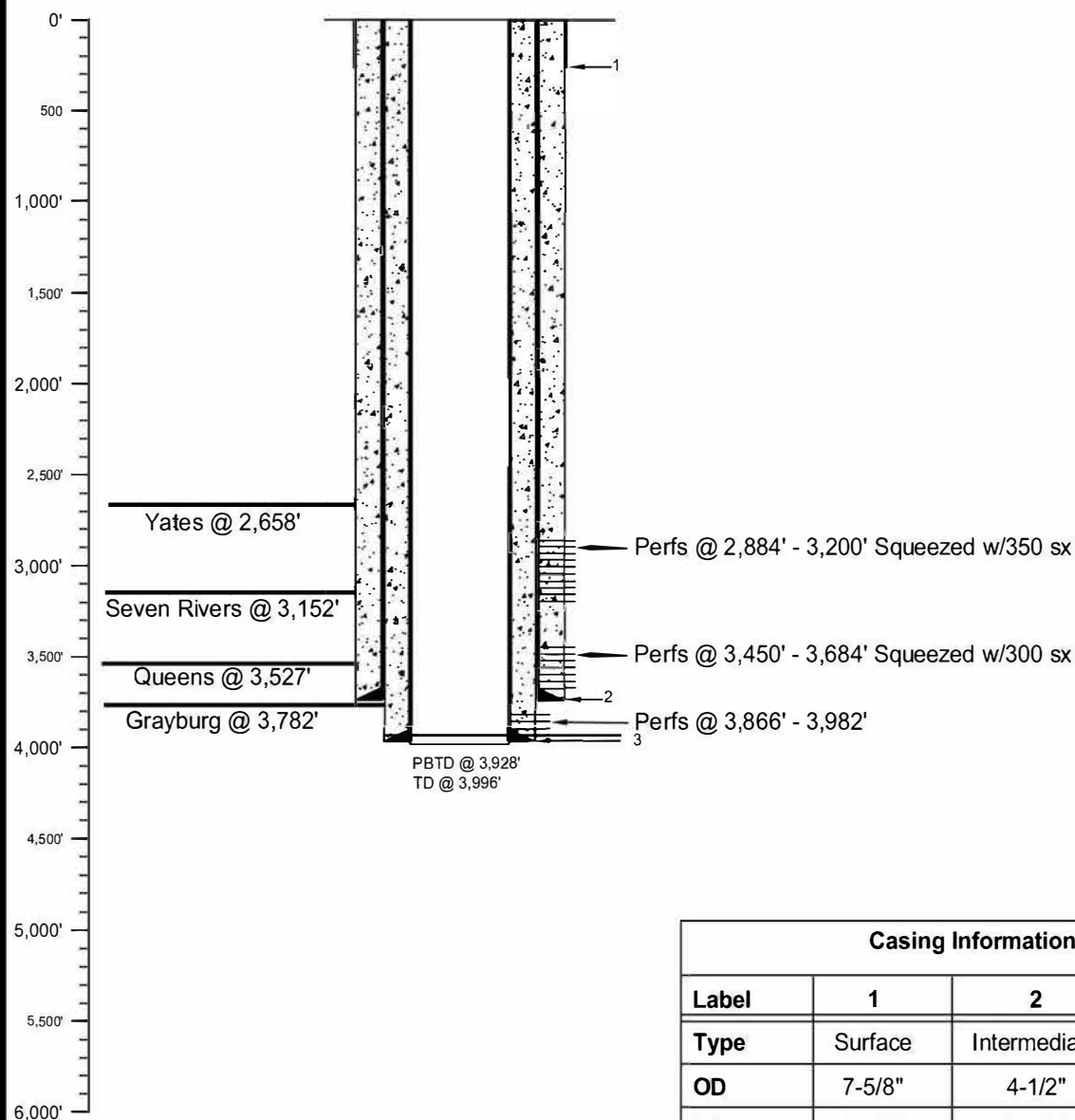
<<< Fold Here >>>

Contractor does not warrant the accuracy of log data, including but not limited to the accuracy of log data transmitted by electronic process, and Contractor shall have no liability for the accidental or intentional interception of such data by third parties. In making any interpretation of logs, Contractor's personnel will give Operator the benefit of their judgment as to the correct interpretation, however, Contractor disclaims any warranty or guarantee of interpretations of data provided by Contractor's personnel; these are opinions only and Operator assumes full responsibility for the use of such opinions. Under no circumstances should any interpretation or recommendation of Contractor's personnel be relied upon as any part of the basis for any drilling, completion, well treatment or production decision or any procedure including any risk to the safety of any drilling venture, drilling contractor or its crew or any other individual, except as is otherwise expressly provided pursuant to the terms of the contract, contractor makes no warranty of any kind, express or implied (including, without limitation, implied warranties of merchantability or fitness for a particular purpose), regarding the equipment, goods and services it furnishes hereunder.

Comments

LOG CORRELATED TO KLX RAT LOG DATED 14-SEP-2022
WELLHEAD CONNECTION: 2" LP

PRE-BASE TD: 3922'
POST-BASE TD: 3920'



Casing Information			
Label	1	2	3
Type	Surface	Intermediate	Production
OD	7-5/8"	4-1/2"	2-7/8"
WD	0.300"	0.205"	0.217"
ID	7.025"	4.090"	2.441"
Drift ID	6.900"	3.965"	2.347"
COD	8.500"	5.000"	3.668"
Weight	24 lb/ft	9.5 lb/ft	6.5 lb/ft
Grade	H-40	NA	NA
Hole Size	NA	NA	NA
Depth Set	266'	3,719'	3,987'
TOC	Surface (circulation)	2,600' (log)	Surface (circulation)
Volume	180 sx	200 sx	200 sx



WSP USA Inc.
16200 Park Row, Ste. 200
Houston, TX 77084
TEL: (281) 589-5900

MARATHON - WESTERN REFINING CO, LP
LEA COUNTY, NEW MEXICO

SWD NO. 1 WELL SCHEMATIC

Job No. 192025V

Drawn: WDD

Checked: JT

Approved: BS

Date: 09/10/2020

Scale: None

Figure No. 1

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
DET	16.00		Cable_Heads-1_00Titan_CableHead 1" Titan Cable Head (Max Tension 24,000 lbf) 1" Fish Neck	0.94	1.00	1.90
			TRDET-Probe1_DD_1.38 (Probe1_T) 1 3/8" Probe Top Neg Det	3.46	1.38	11.00
			TREJCT-K&C_1.38 (KC_30cc)	3.06	1.38	11.00
CCL	10.21		CCL-1.38_ProbeLoggingCCL (1.38_ProbeCCL) 1 3/8" Probe CCL	1.88	1.38	5.00
			7' Weight Bar-1 3/8" Tungsten_Filled Wt. Bar 1 3/8" Tungsten-Filled Weight Bar 7'	7.00	1.44	57.00
			TRDET #2 -Probe2_DD_1.38 (Probe2_B) 1 3/8" Probe Bottom Pos Det	3.46	1.38	11.00
DET#2	0.00					

Dataset: 2023-10-25_marathon_new_mexico_swd1_rat.db: langlie_mattix/SWD1/PREBASE/pass1

Total weight: 96.90 lb

O.D.: 1.44 in

Received by OCD: 11/1/2023 3:54:06 PM

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Released to Imaging: 11/1/2023 4:42:26 PM

Radioactive Tracer Summary Sheet

WELL INFORMATION

DATE: 10/25/2023
 COMPANY: MARATHON - WESTERN REFINING
 WELL: SHELL STATE "13" SWD
 FIELD: LANGLEIE MATTIX
 STATE: NM
 DISTRICT: ROSHARON, TX
 COUNTY: LEA
 LOGGING ENGINEER: V.FATTAKHOV/S.HATCHETT
 WELL CONNECTION: 2" LP

RUN No.	START		STOP		INJECTION		LOGGING SPEED	SLUG PEAK	REMARKS
	DEPTH	TIME	DEPTH	TIME	RATE	PSIG			
1	3919	10:40	2491	11:09	0 GPM	0	52		PRE-BASE LOG
	2650								EJECTED SLUG #1
2	2721	11:25	2643	11:26	12 GPM	0	58	2693	PASS # 1
3	2899	11:27	2649	11:31	12 GPM	0	58	2857	PASS # 2
4	3364	11:34	2794	11:44	12 GPM	0	56	3328	PASS # 3
5	3911	11:50	3211	12:03	12 GPM	0	56	DISSIPATED	PASS # 4
	2650								EJECTED SLUG #2
6	2736	12:07	2643	12:09	20 GPM	0	56	2720	PASS # 1
7	3176	12:10	2686	12:19	20 GPM	0	57	3153	PASS # 2
8	3916	12:25	3088	12:39	20 GPM	0	59	DISSIPATED	PASS # 3
9	3850	12:48	3850	13:11	20 GPM	0	TD		TIME DRIVE
10	3919	13:14	2491	13:39	0 GPM	0	58		POST-BASE LOG

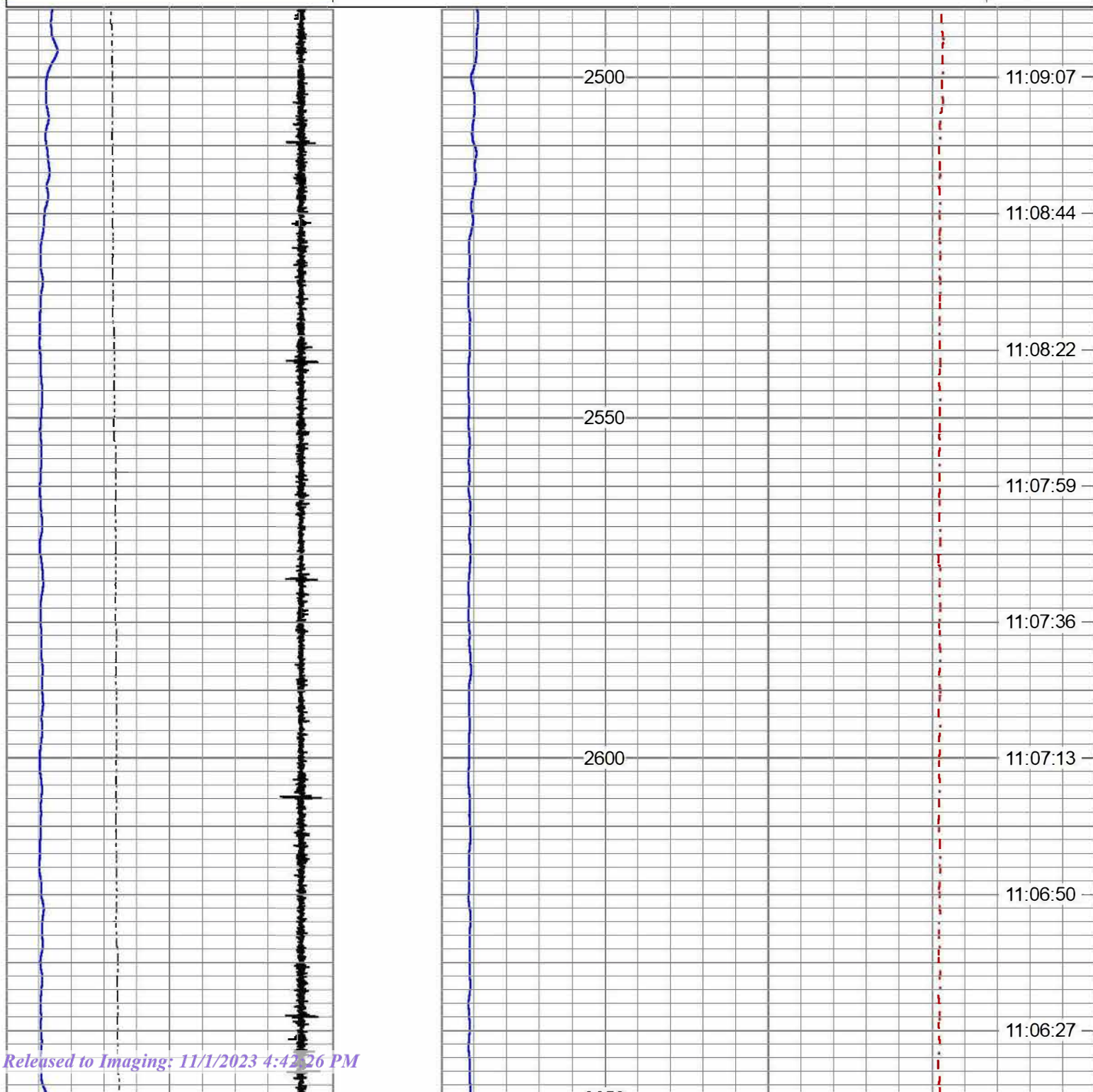


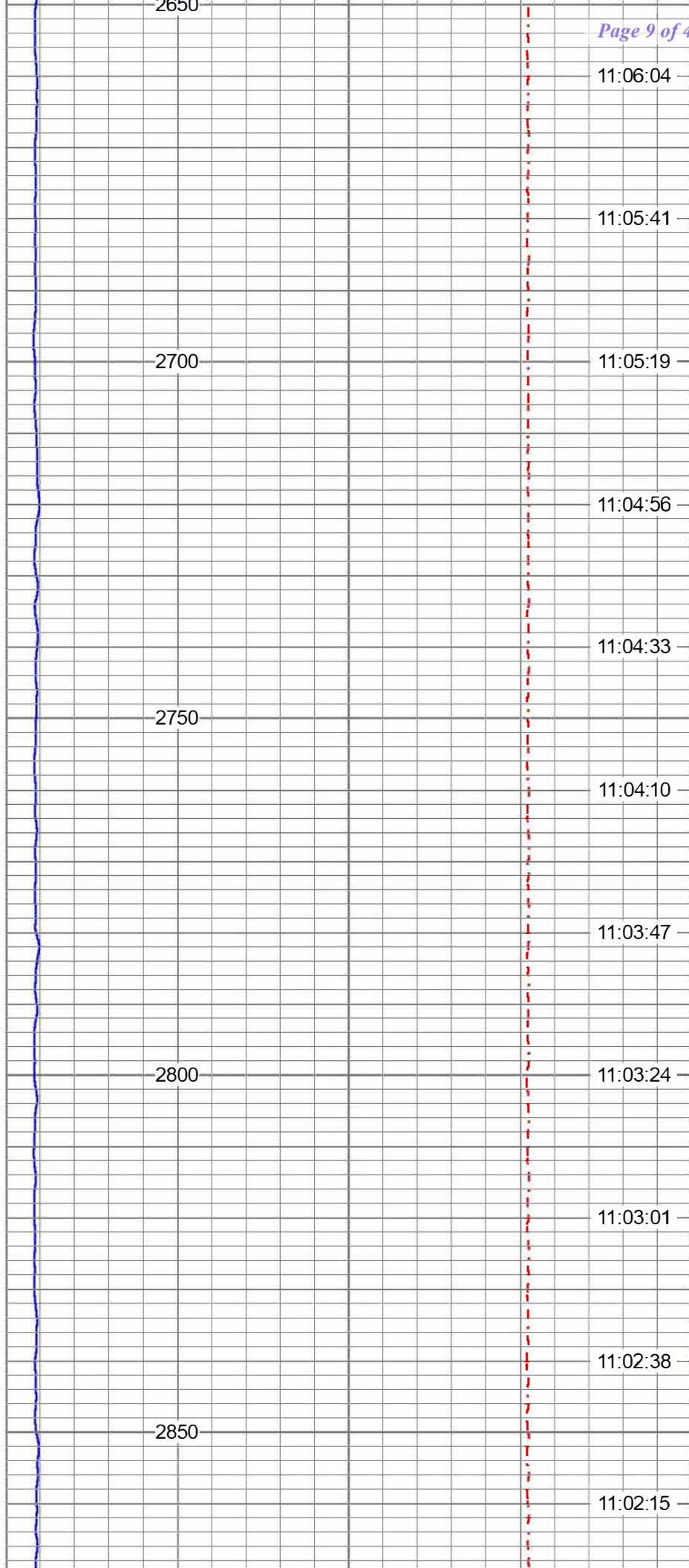
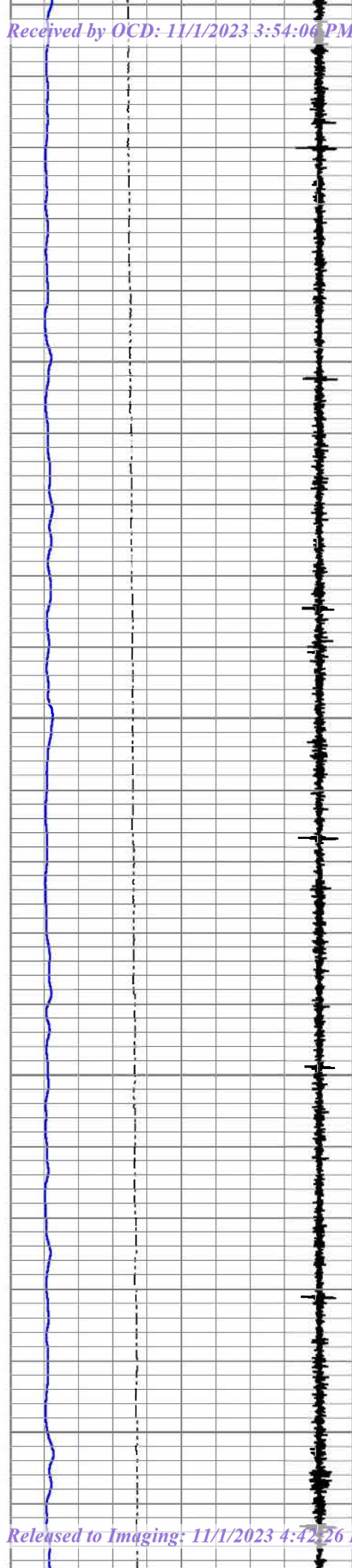
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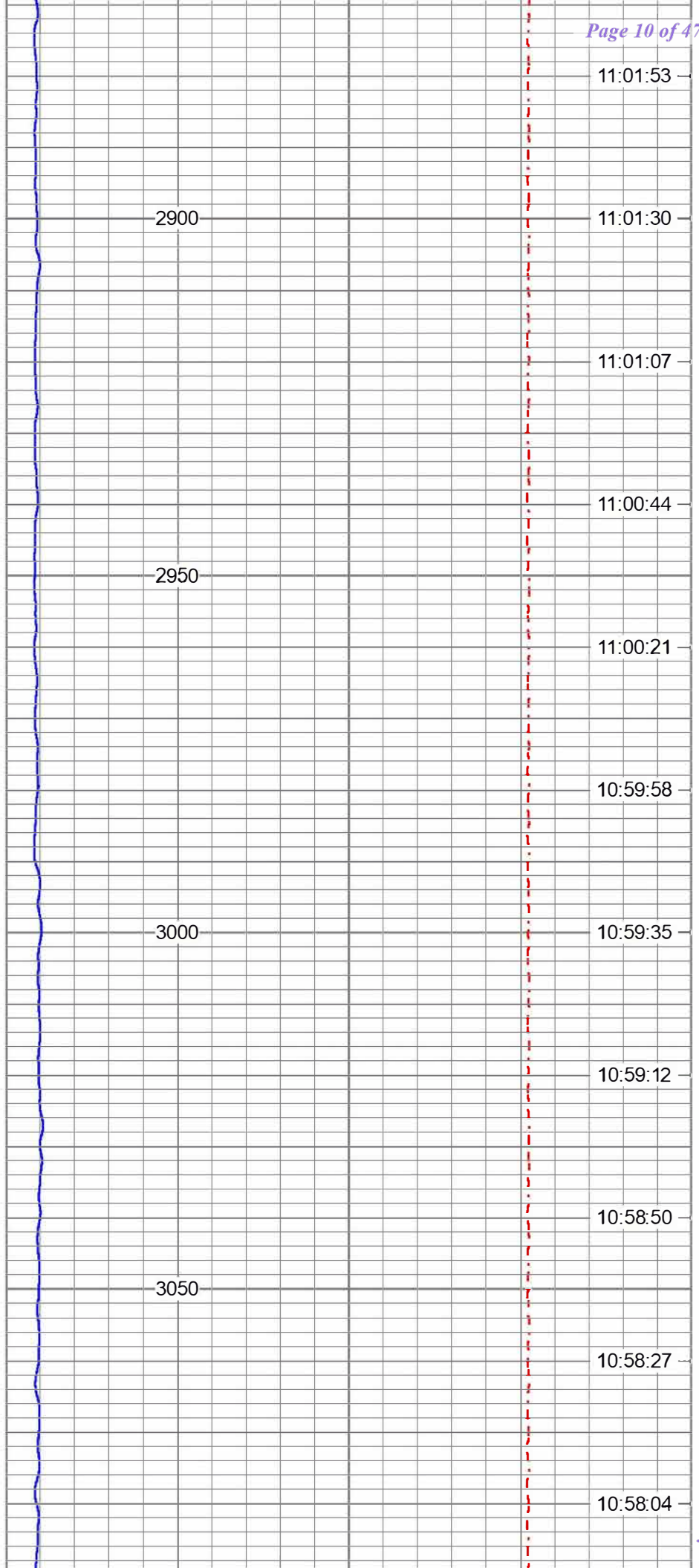
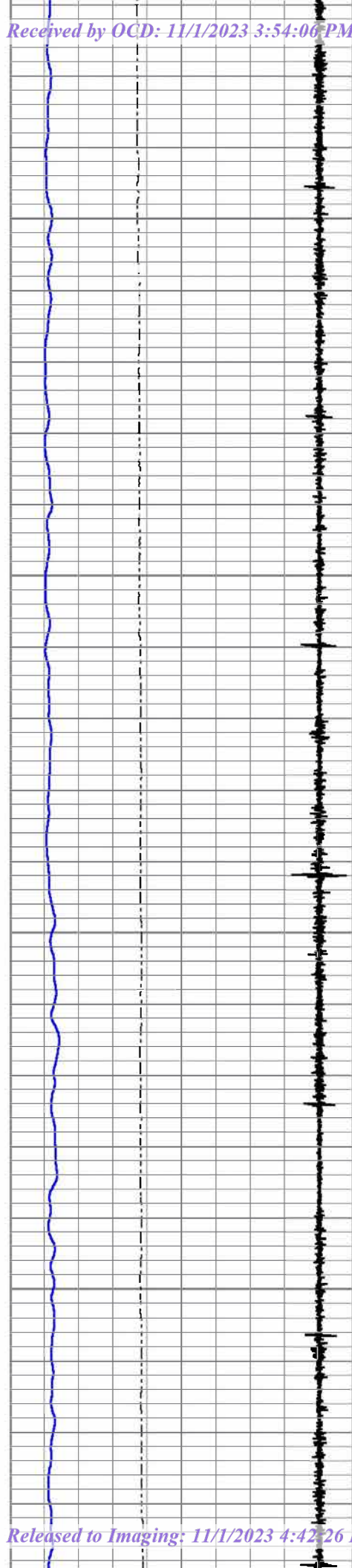
PRE-SURVEY BASE LOG
0 GPM @ 0 PSI

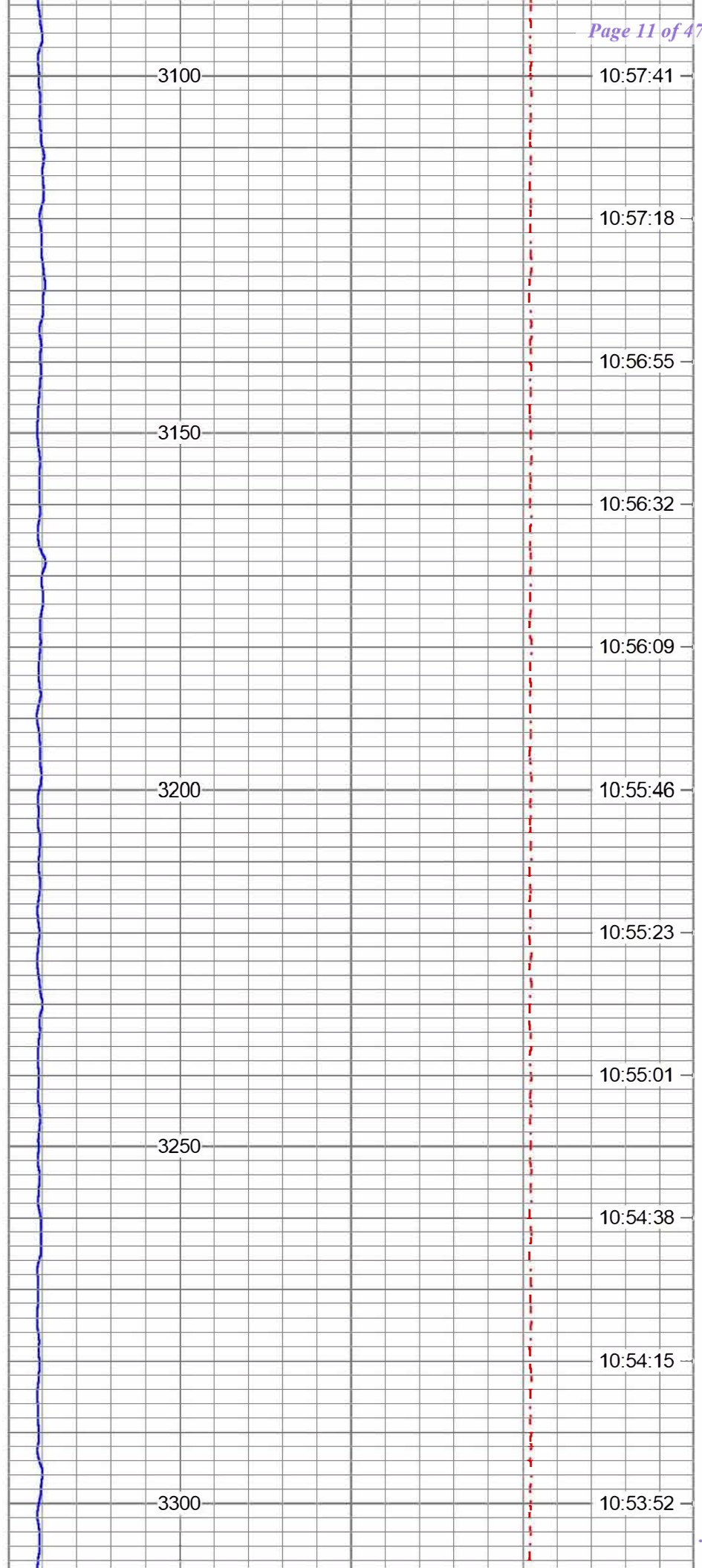
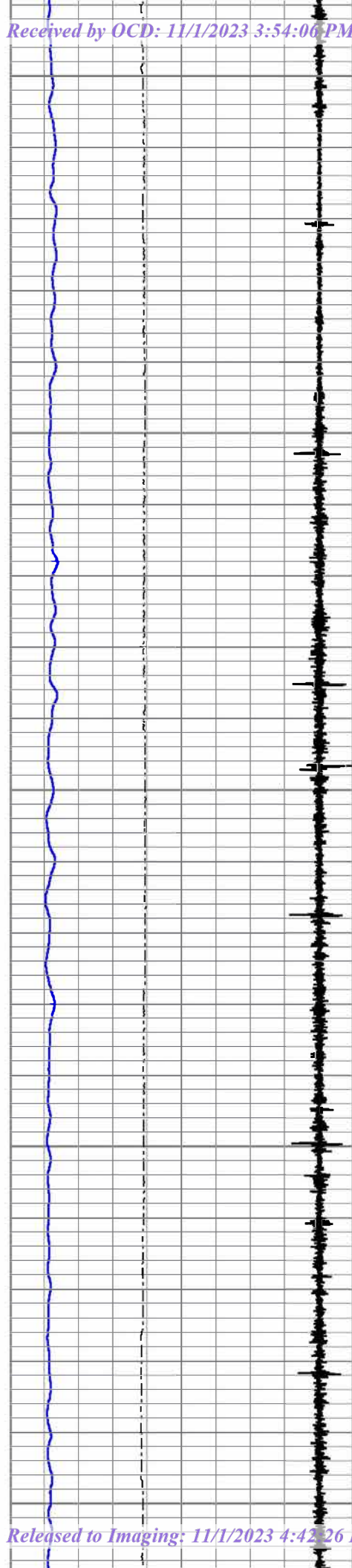
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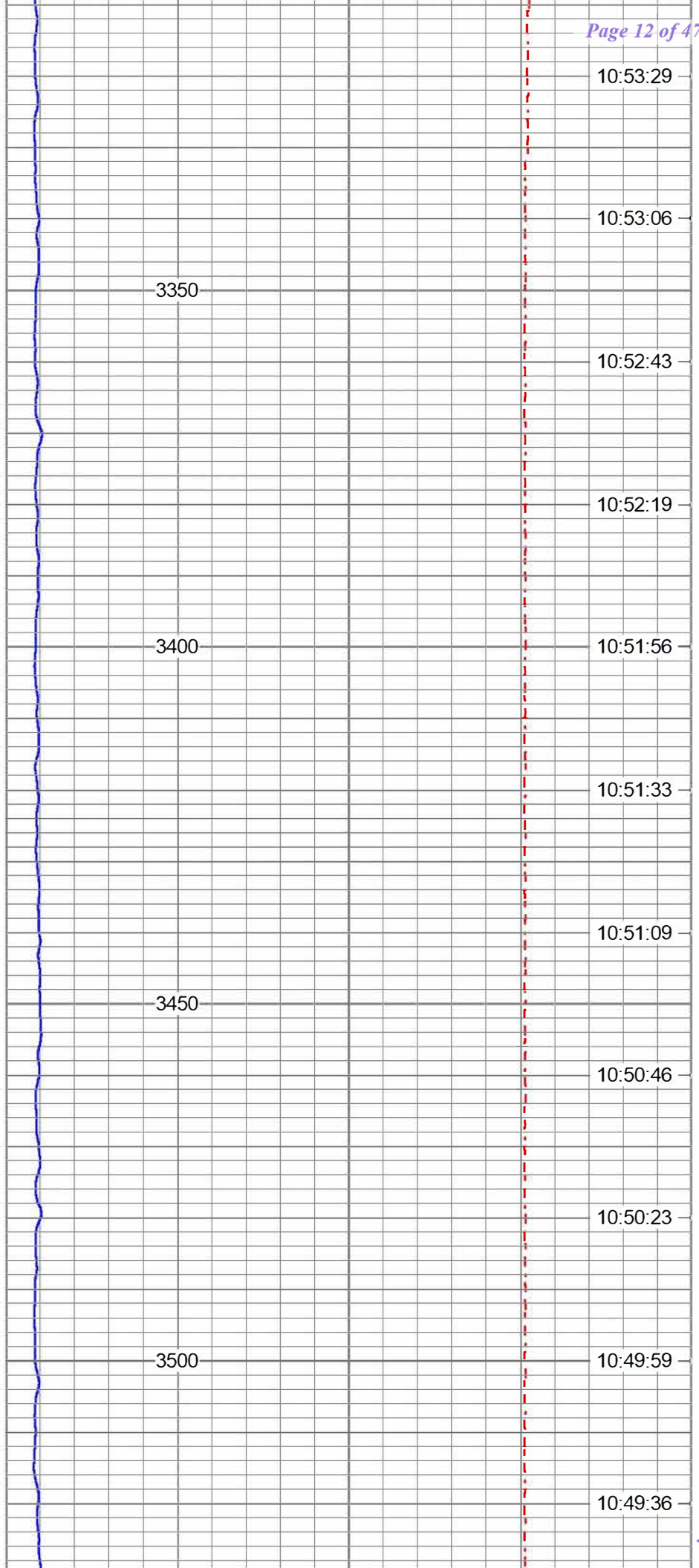
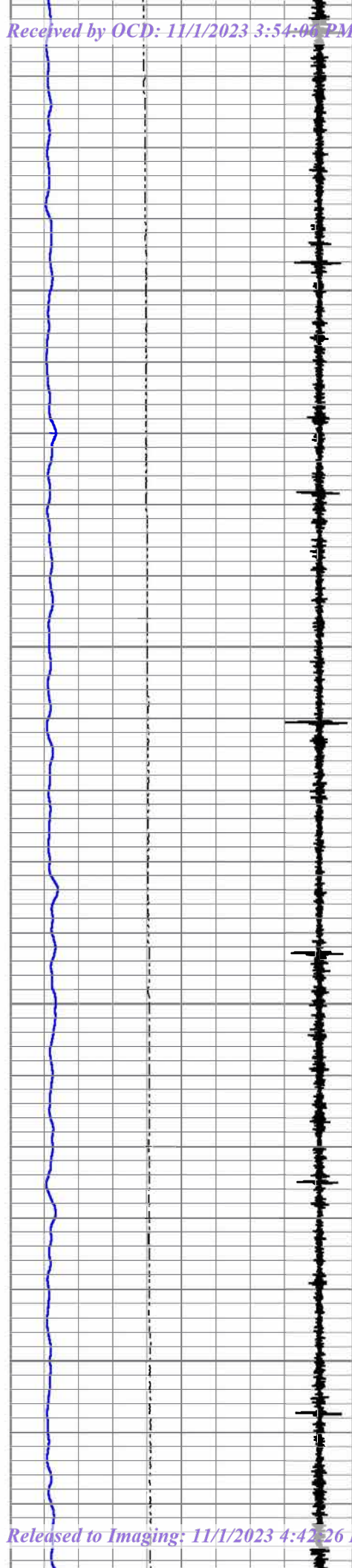
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0	UPPER DET. (GAPI)	100			TOD (sec)

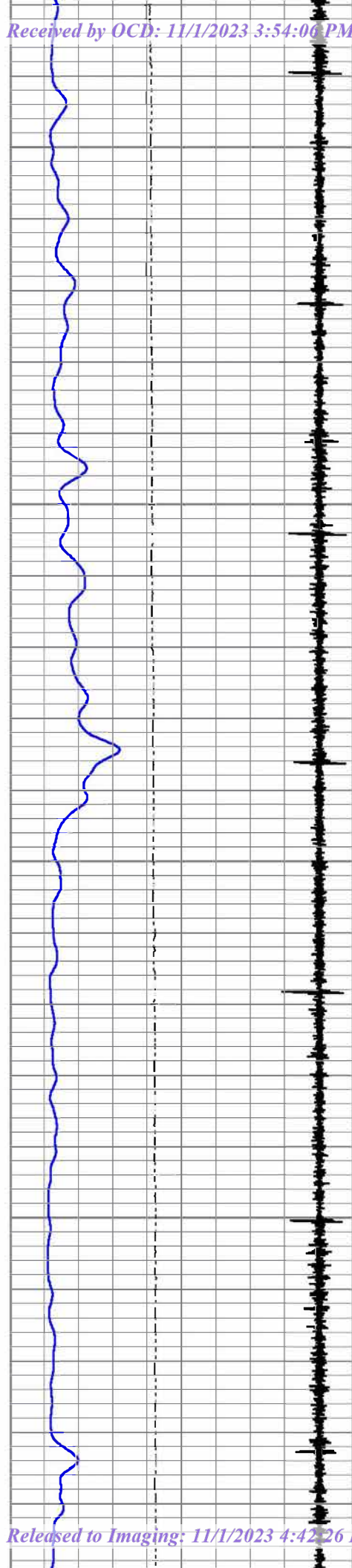


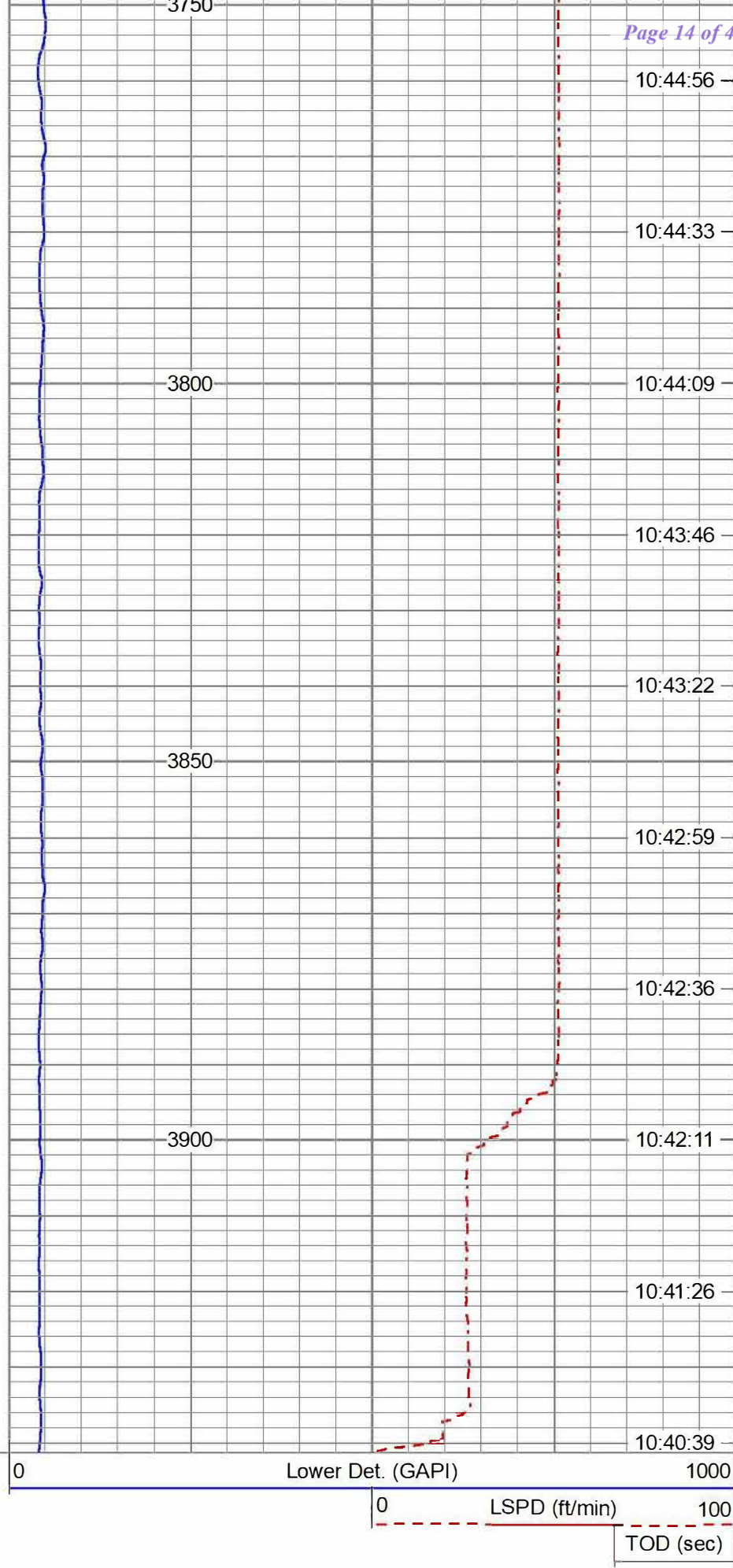
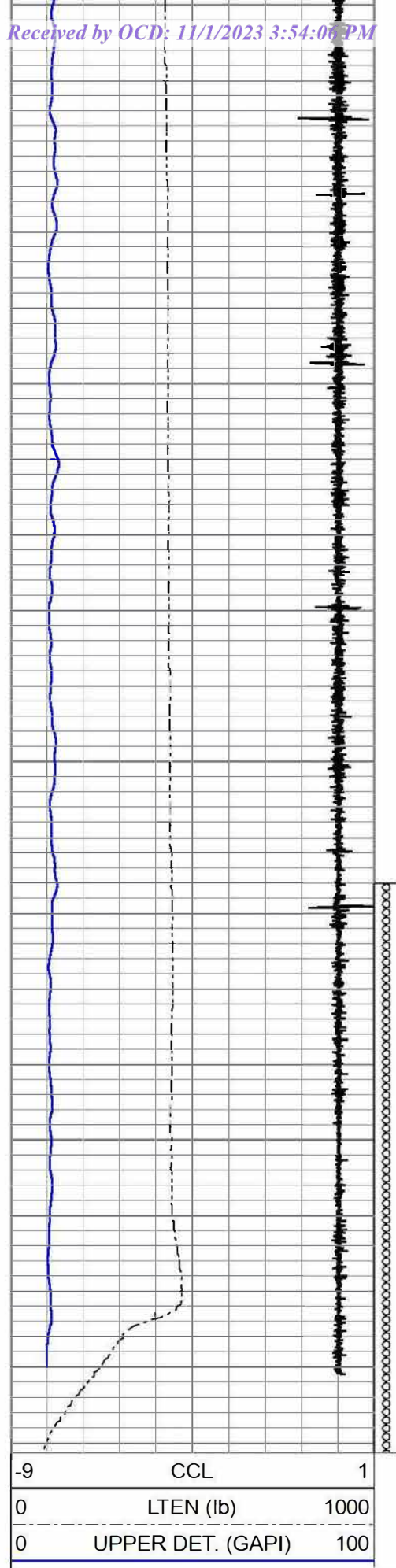






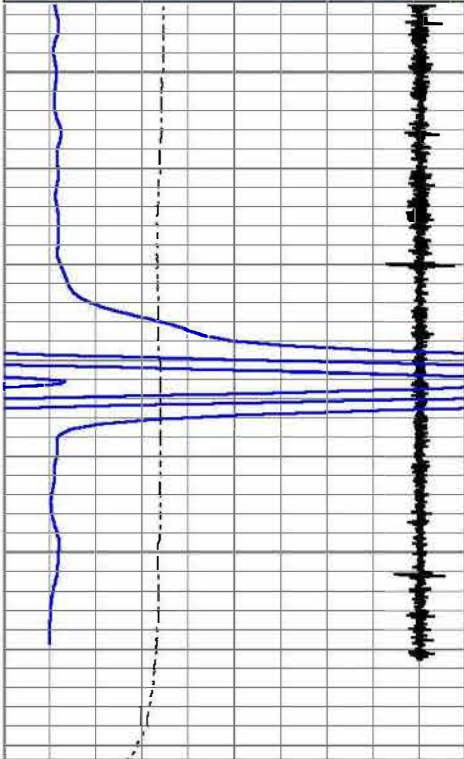




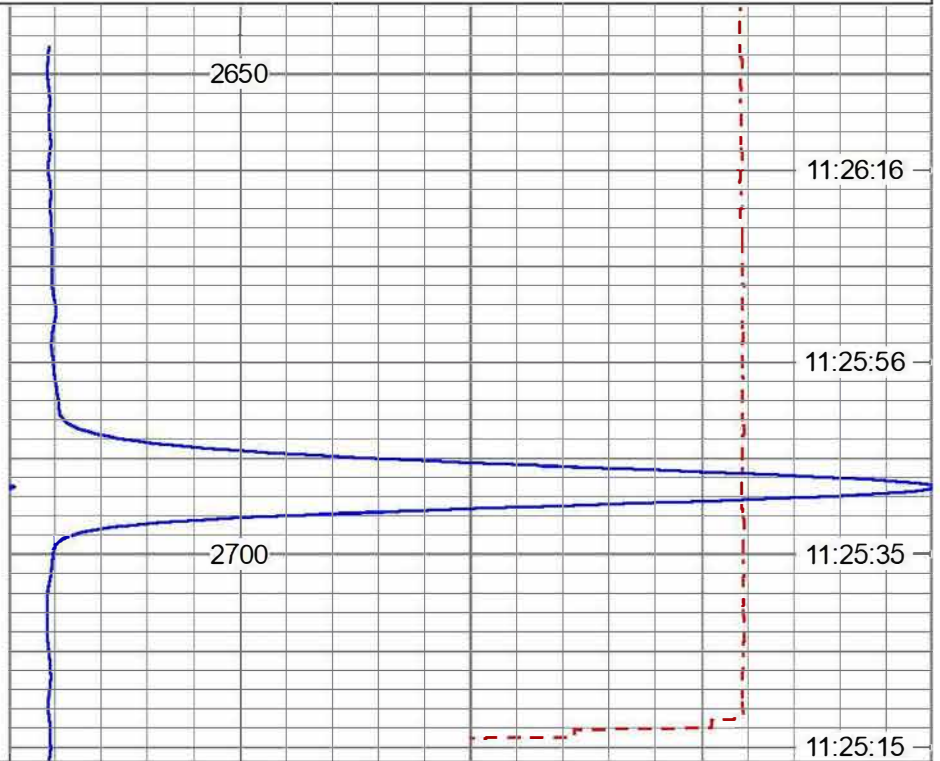


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		TOD (sec)

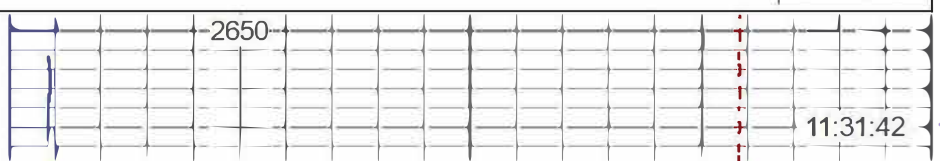


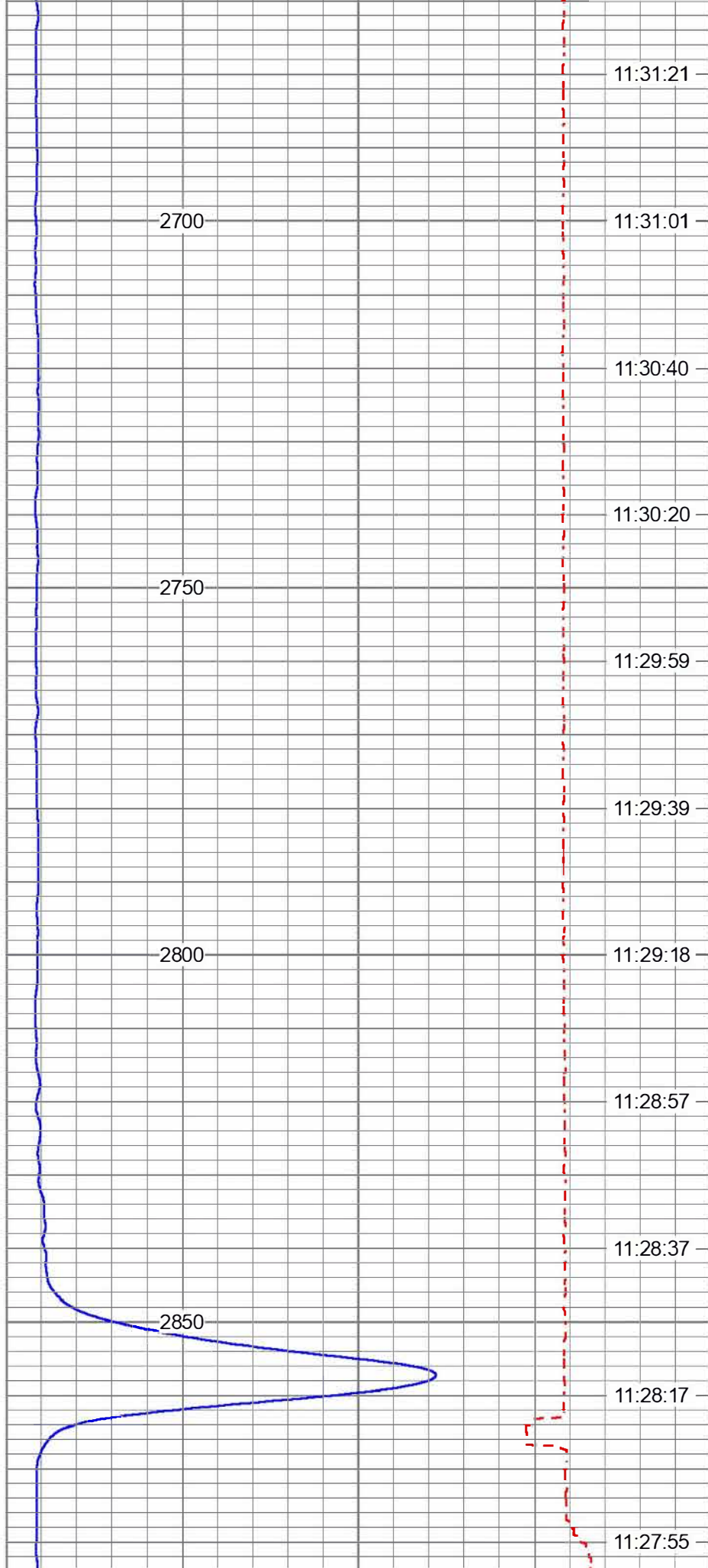
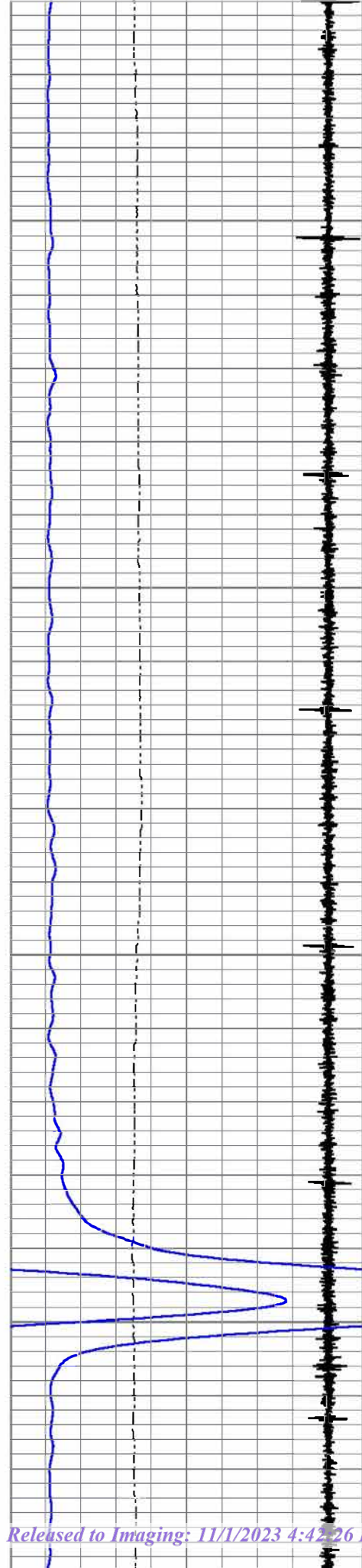
RUN #3

SLUG #1 CHASE #2
12 GPM @ 0 PSI

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0	UPPER DET. (GAPI)	100			TOD (sec)





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0	Lower Det. (GAPI)	1000
0	LSPD (ft/min)	100
	TOD (sec)	



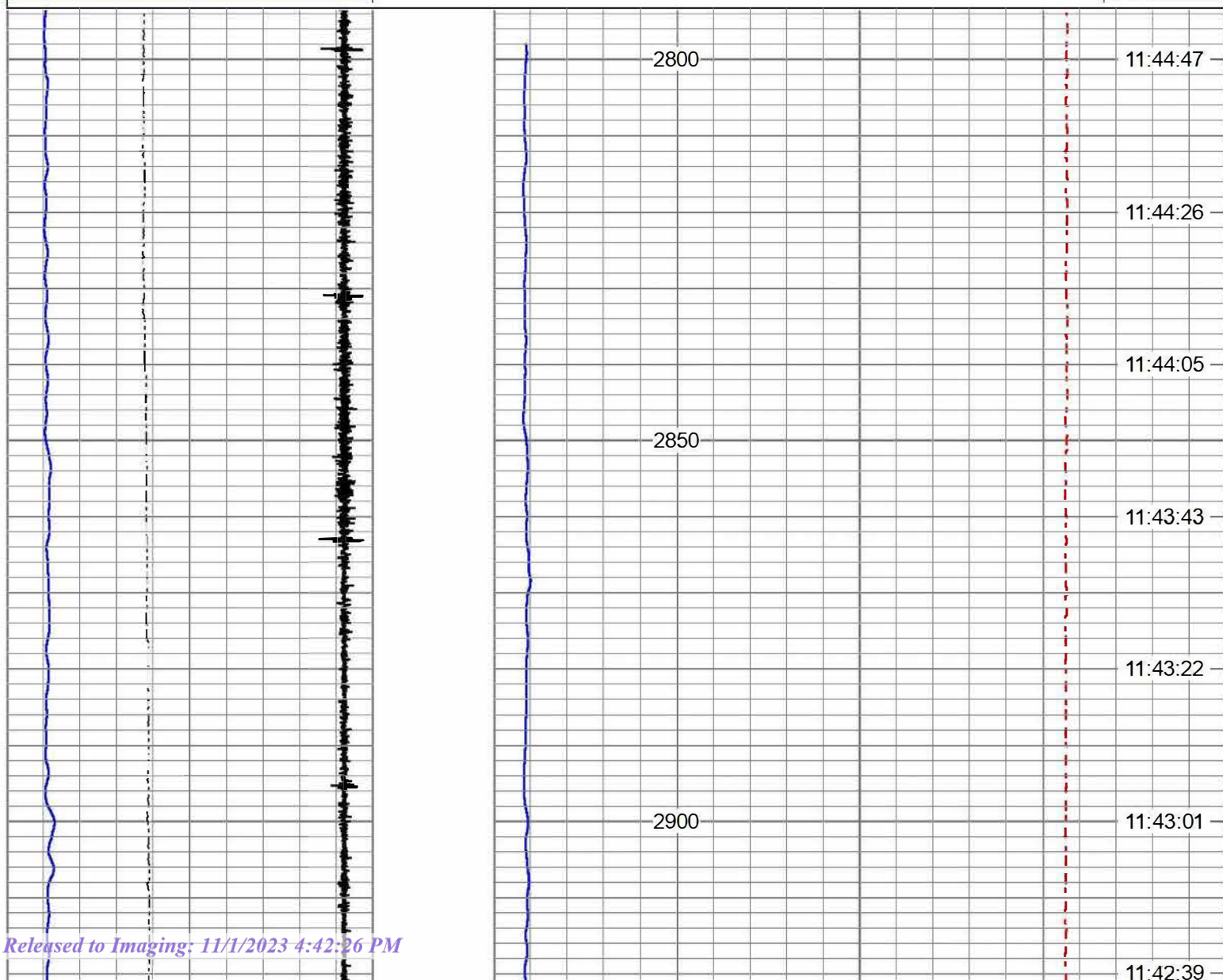
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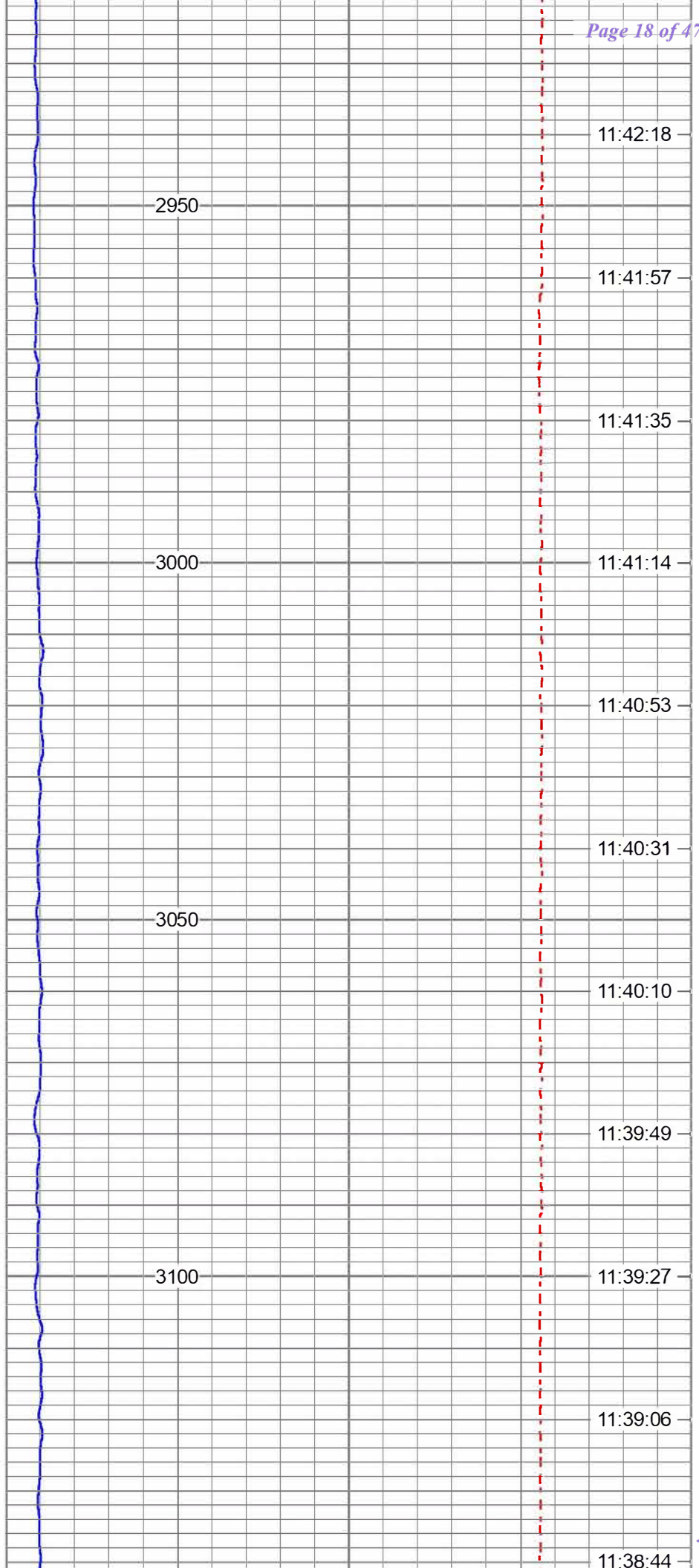
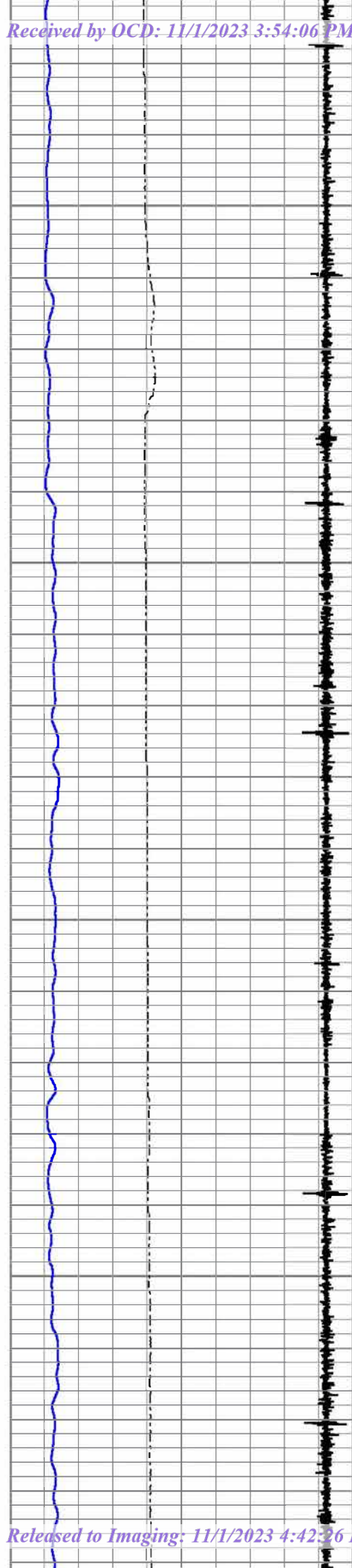
SLUG #1 CHASE #3
12 GPM @ 0 PSI

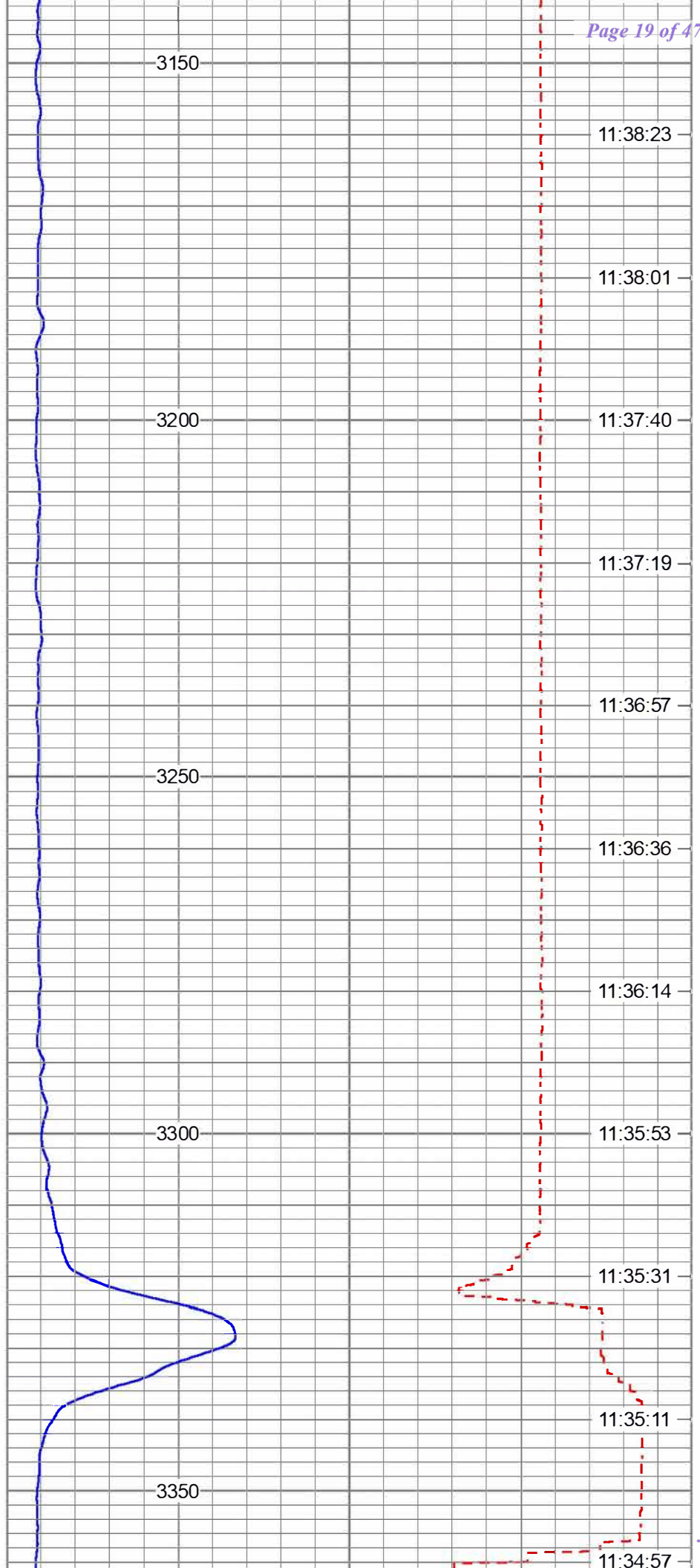
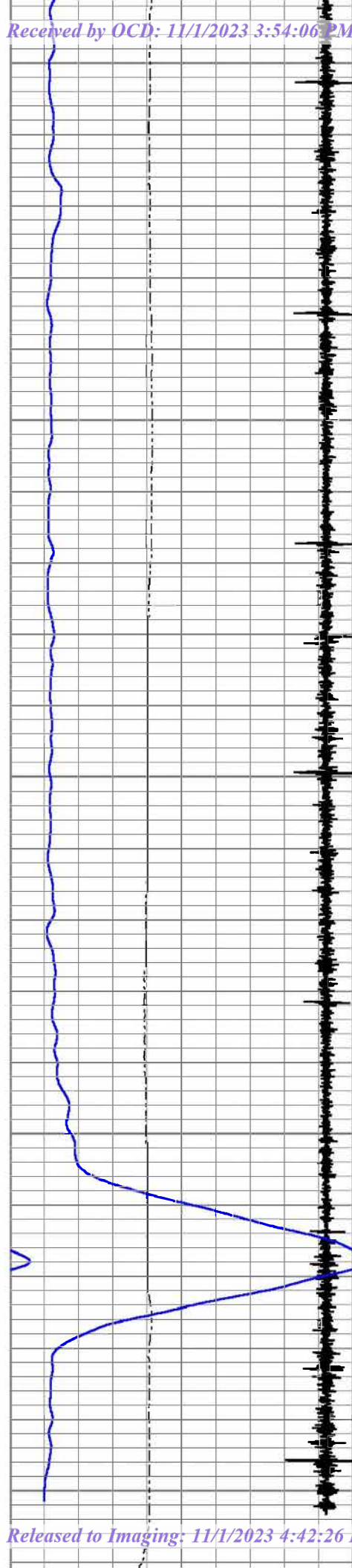
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0	Lower Det. (GAPI)	1000
0	LSPD (ft/min)	100
	TOD (sec)	







0	LTEN (lb)	1000
0	UPPER DET. (GAPI)	100

0	LSPD (ft/min)	100
	TOD (sec)	



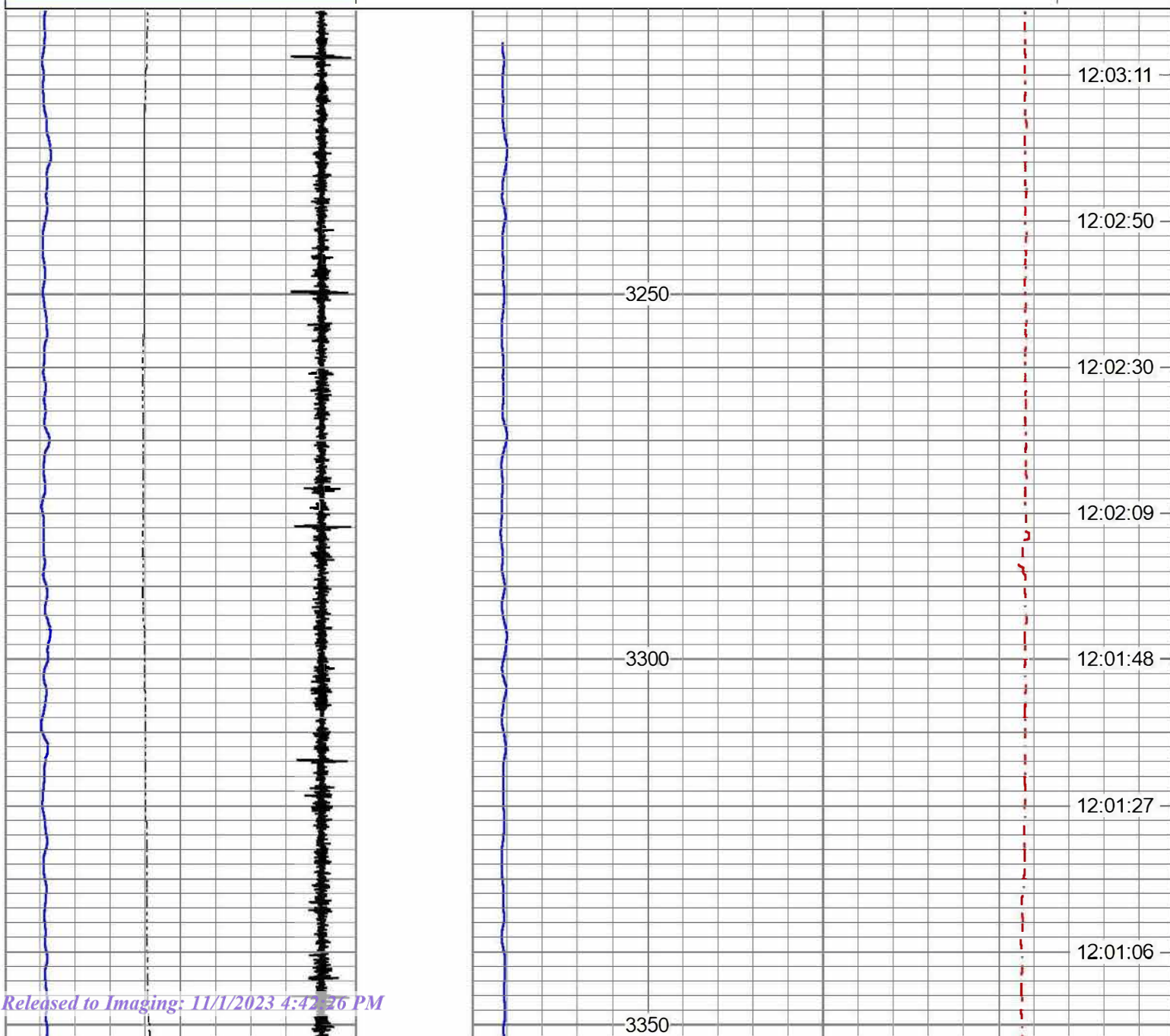
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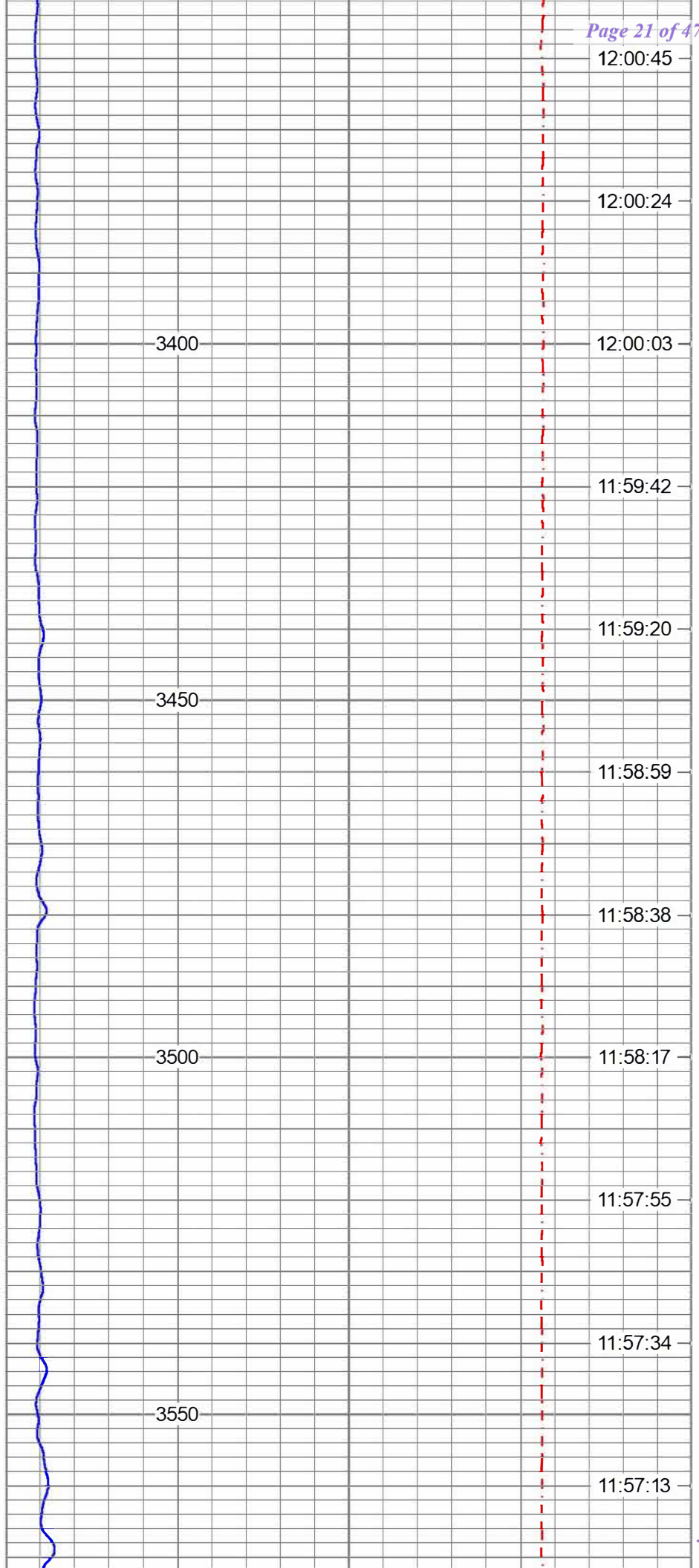
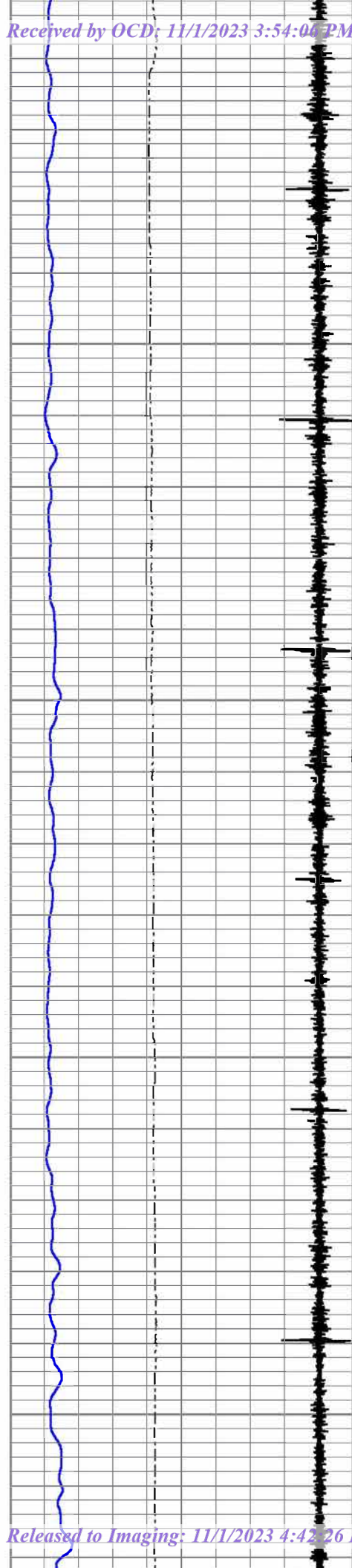
SLUG #1 CHASE #4 DISSIPATED
12 GPM @ 0 PSI

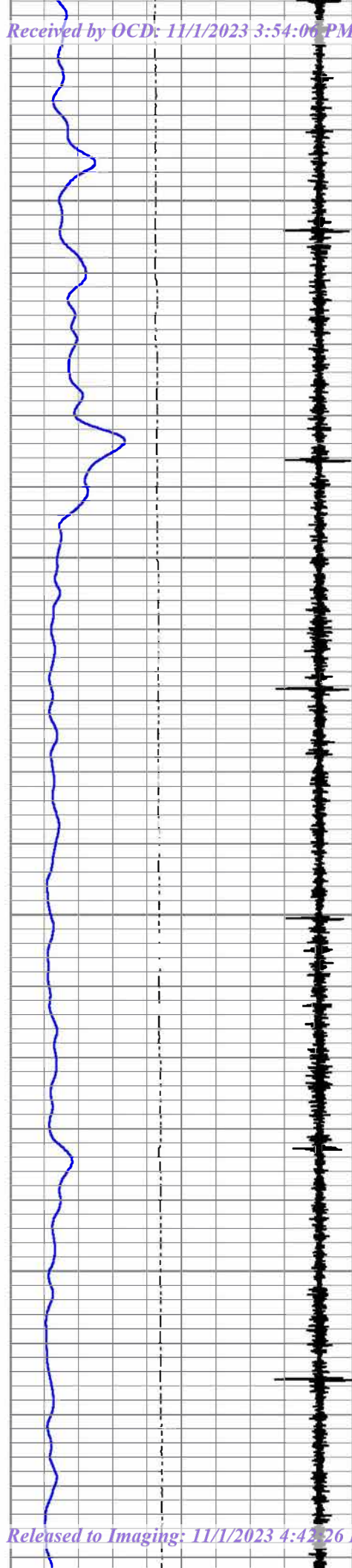
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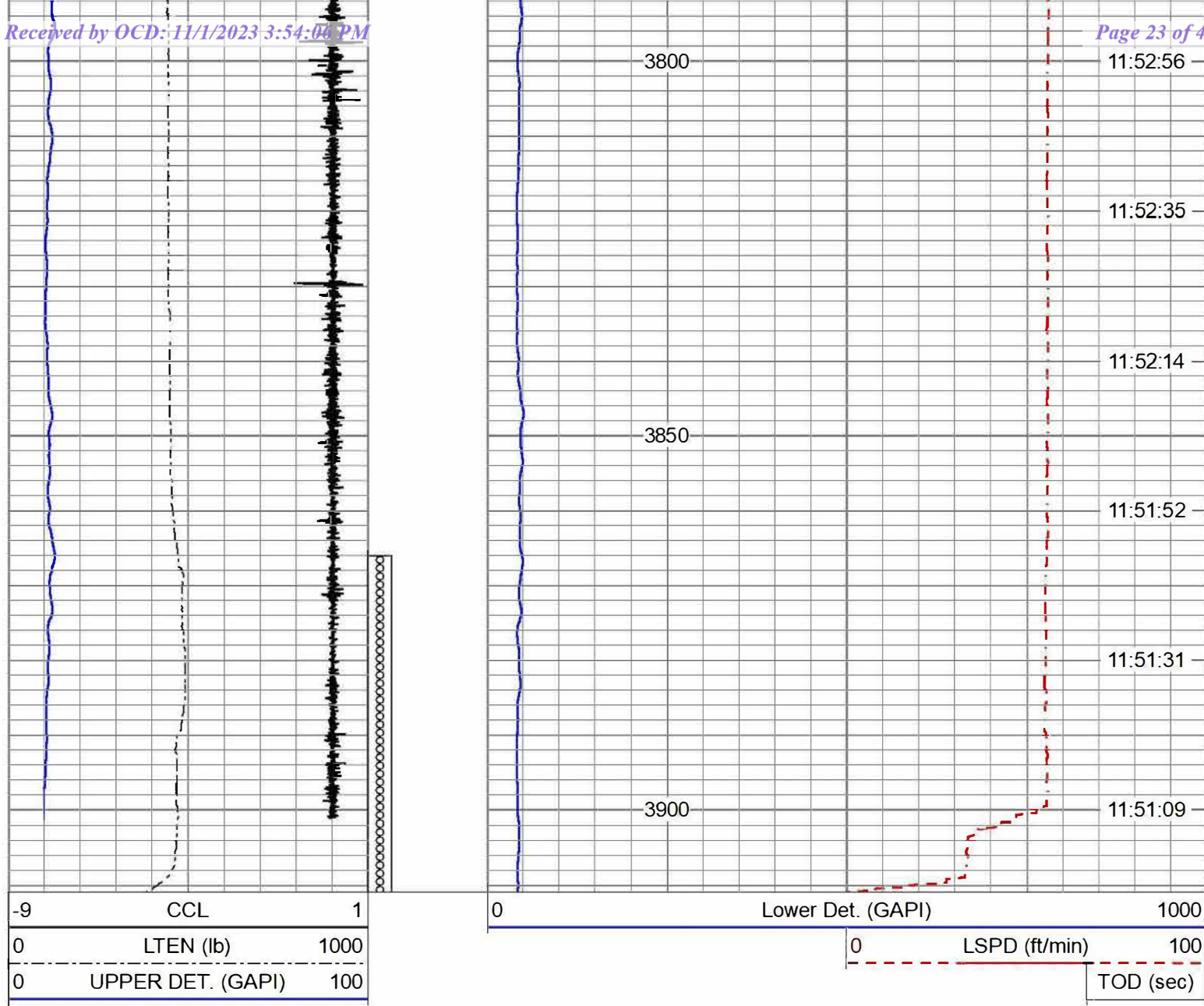
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0	Lower Det. (GAPI)	1000
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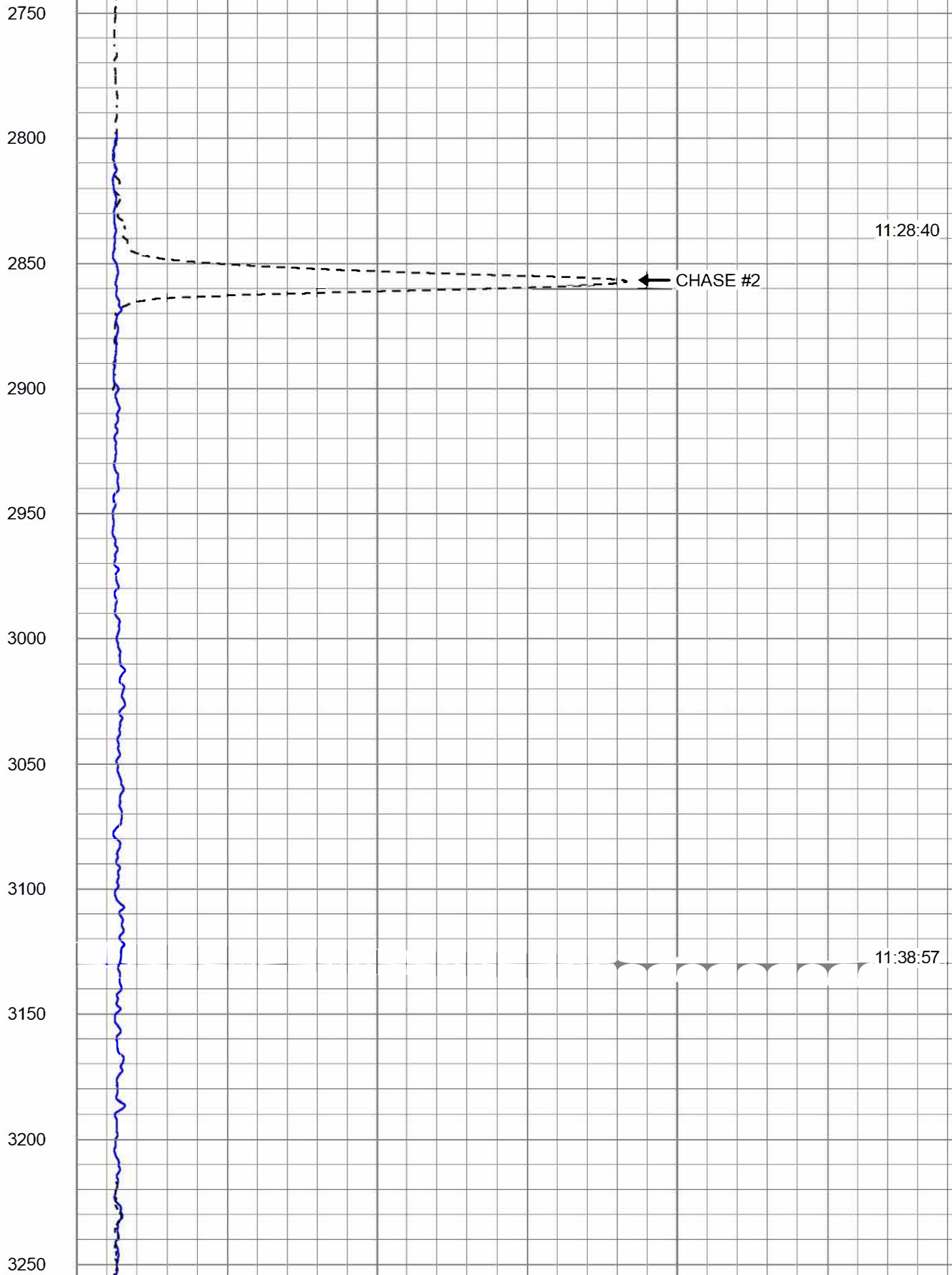
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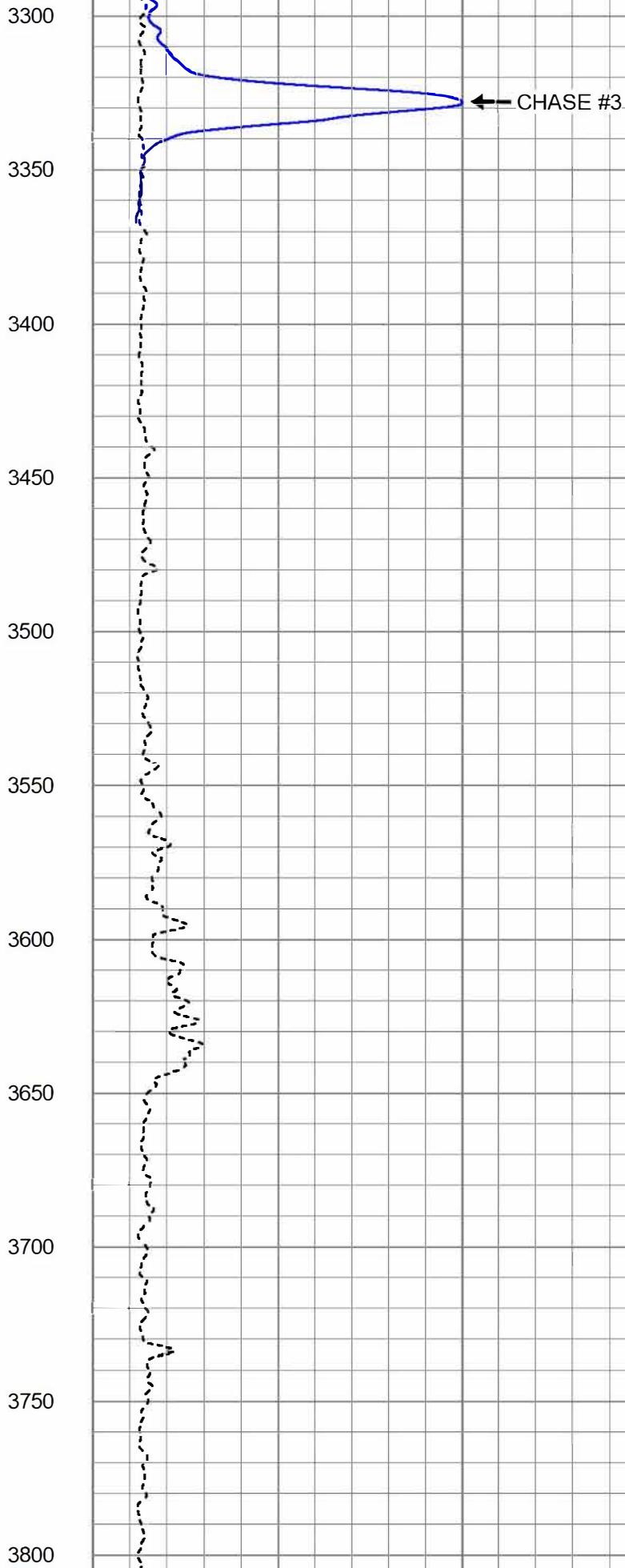
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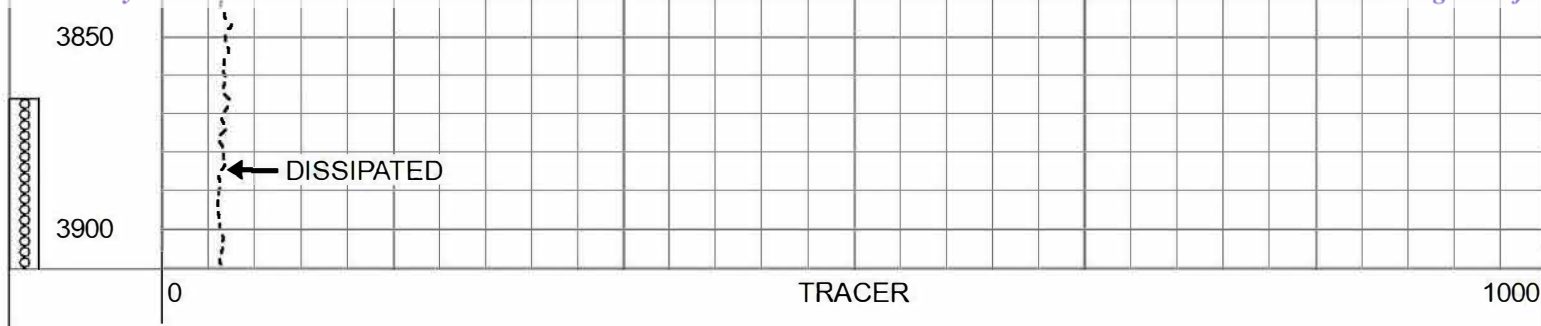
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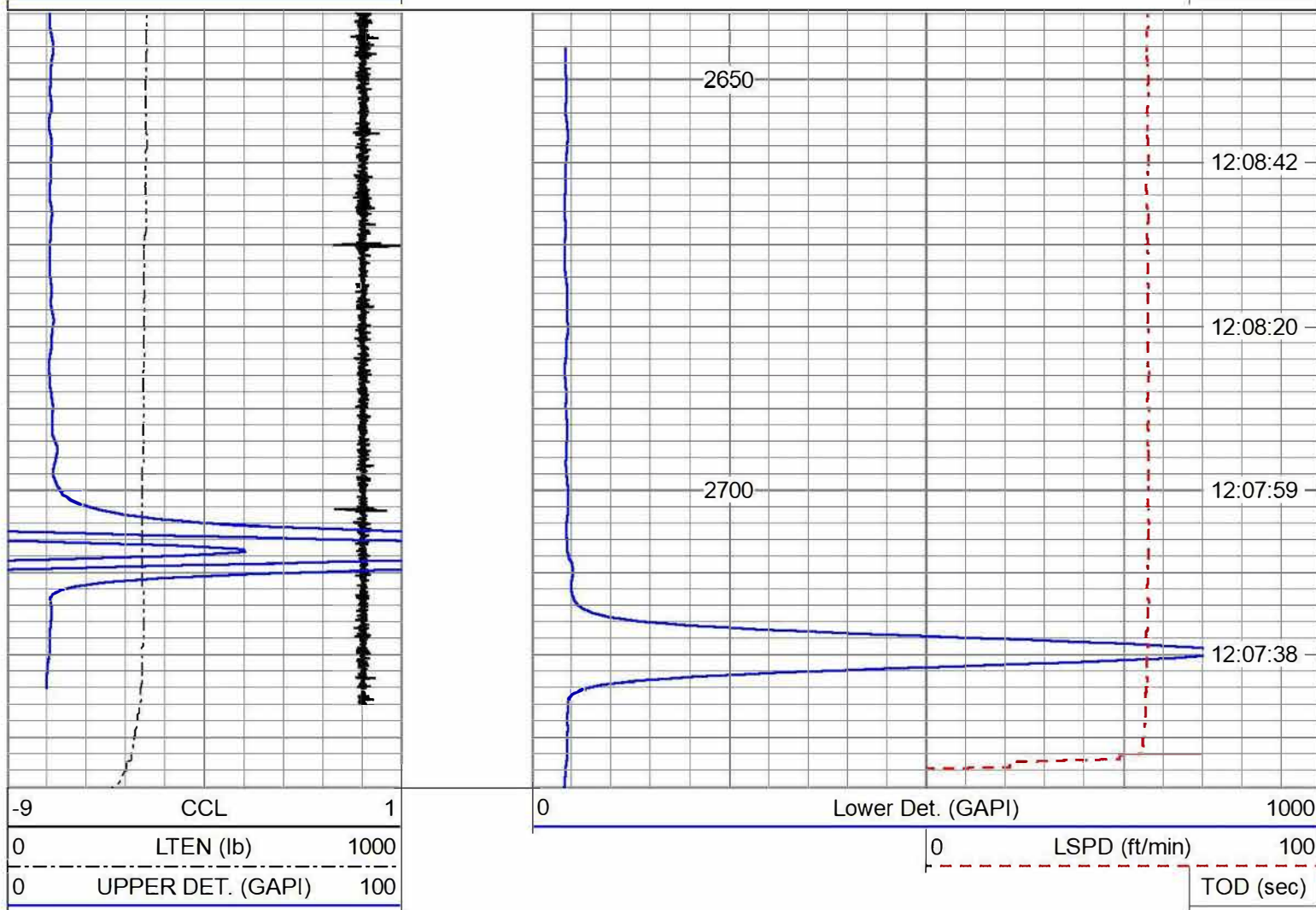


RUN #6

SLUG #2 CHASE #1 EJECT @ 2650'
20 GPM @ 0 PSI

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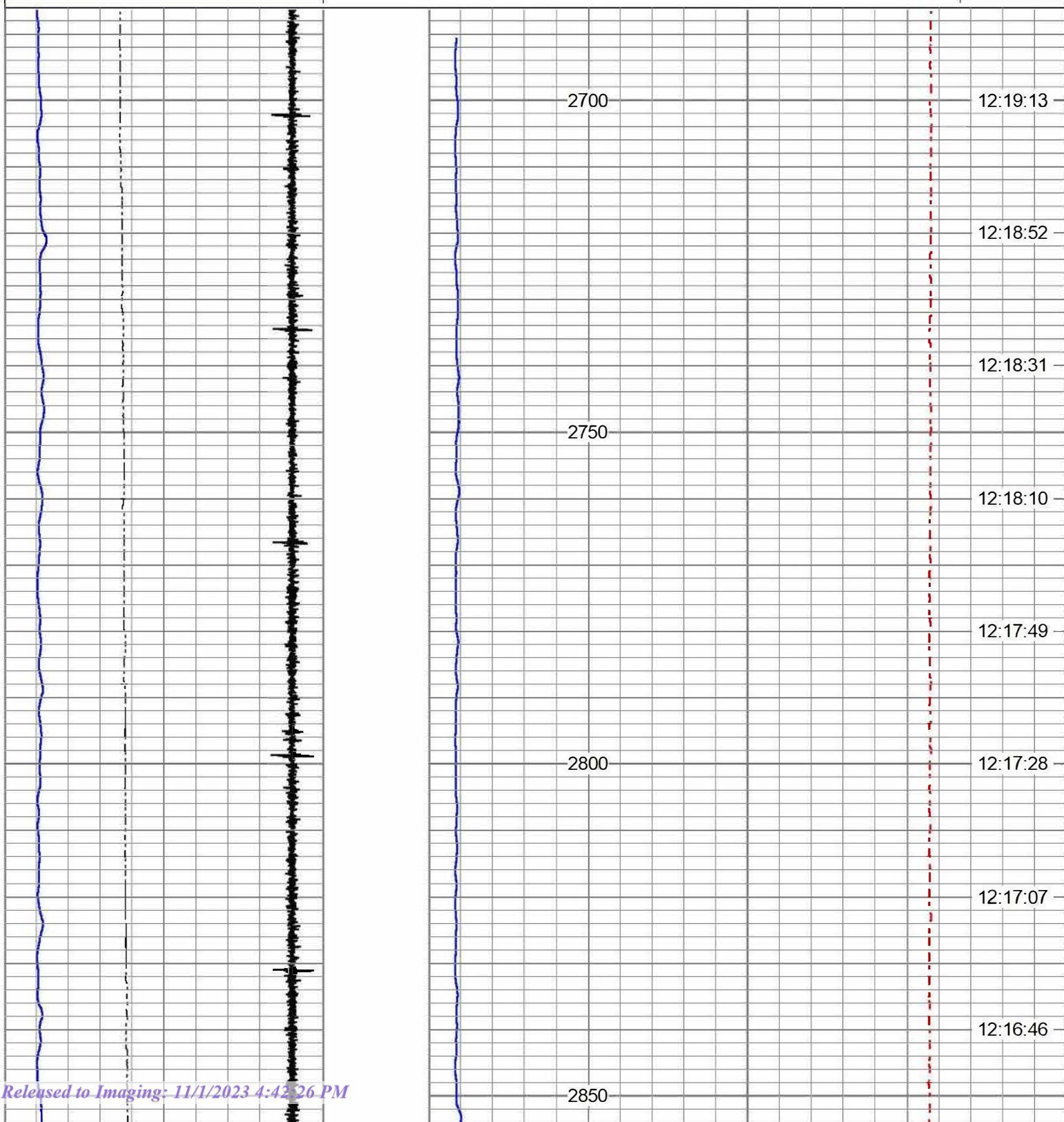
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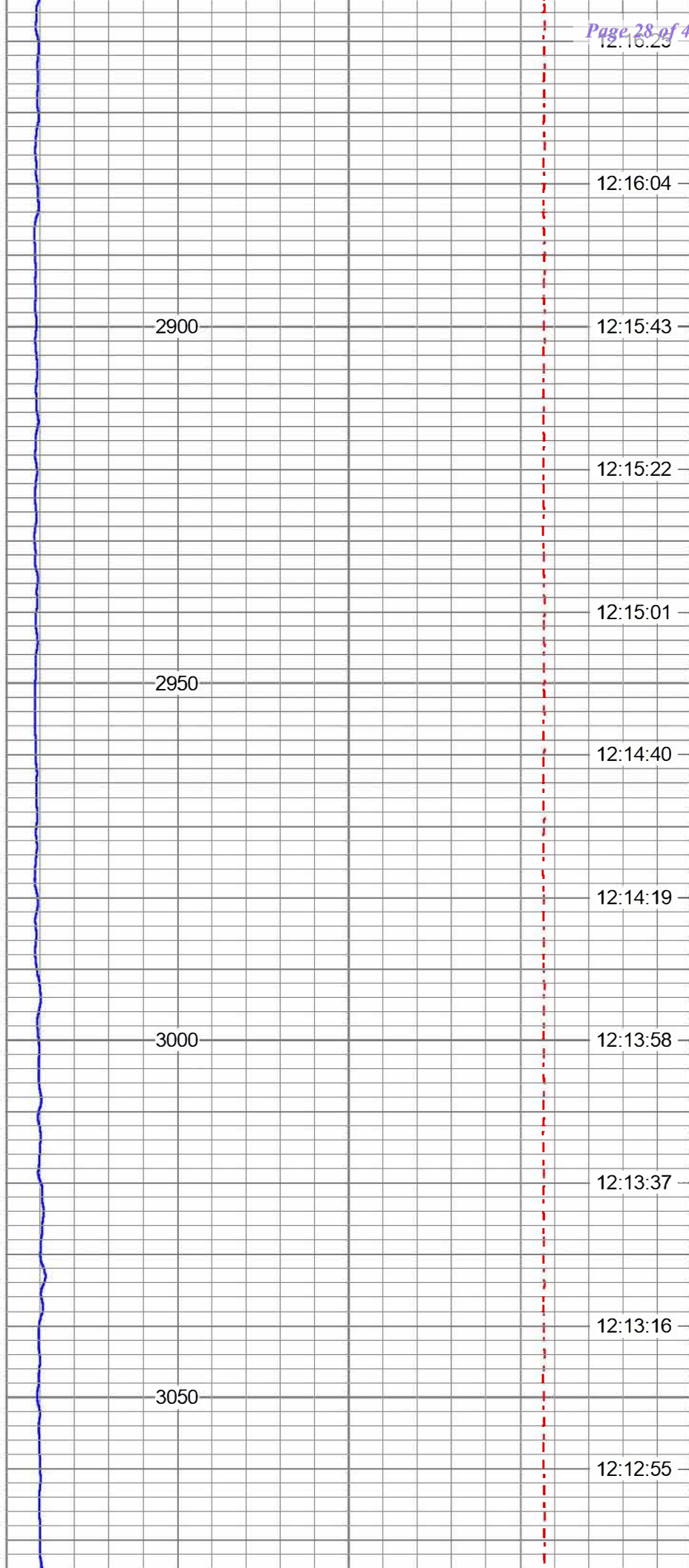
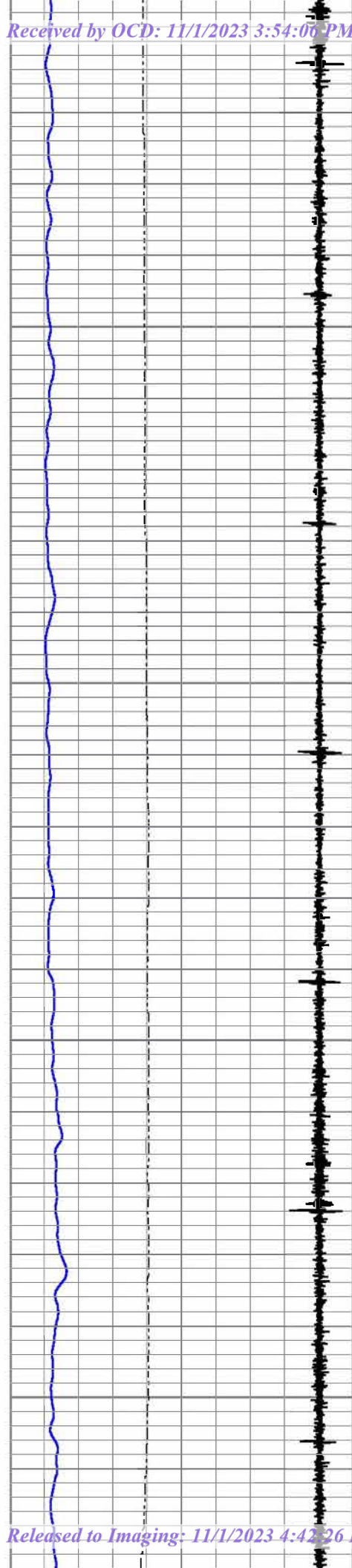


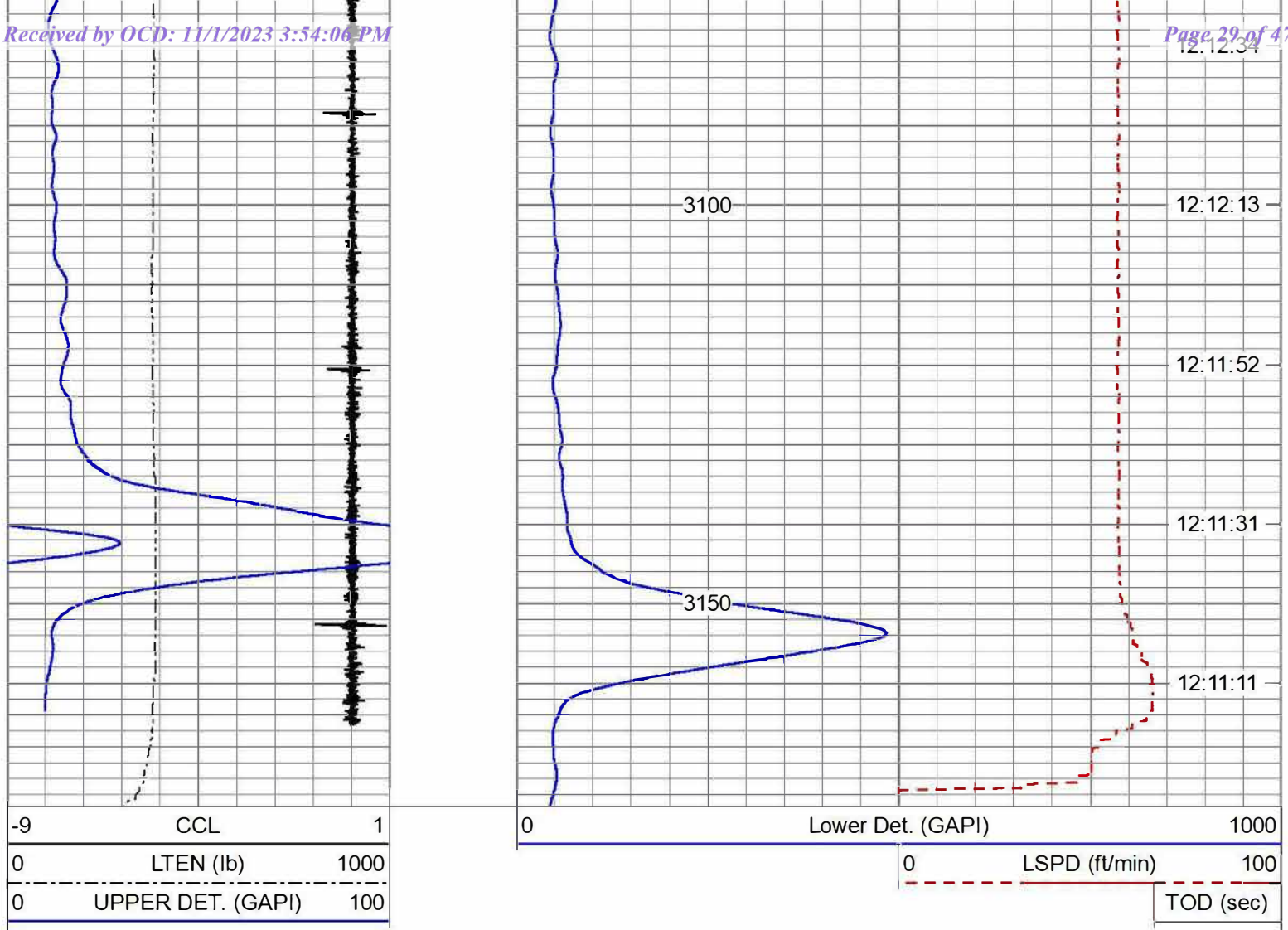
SLUG #2 CHASE #2
20 GPM @ 0 PSI

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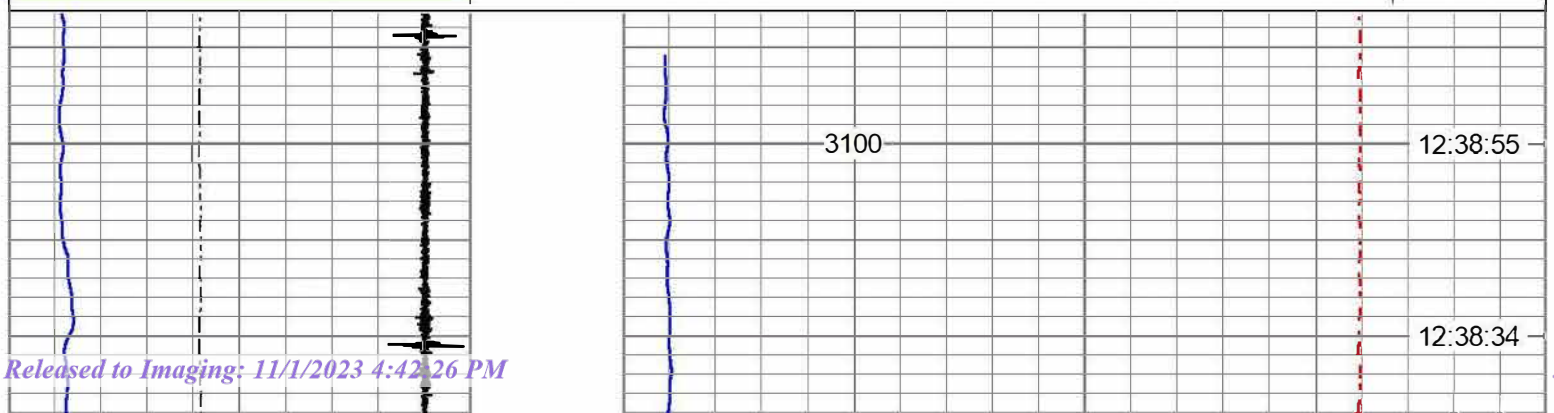
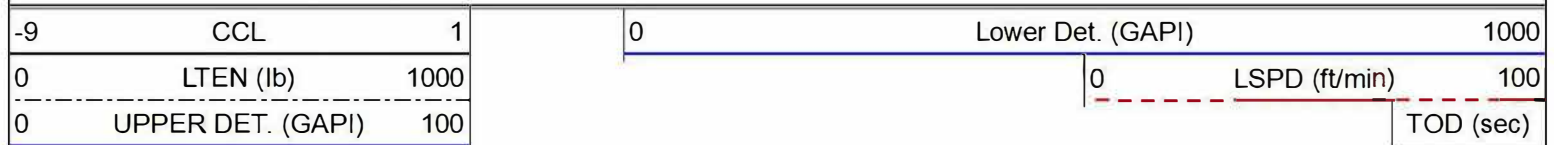


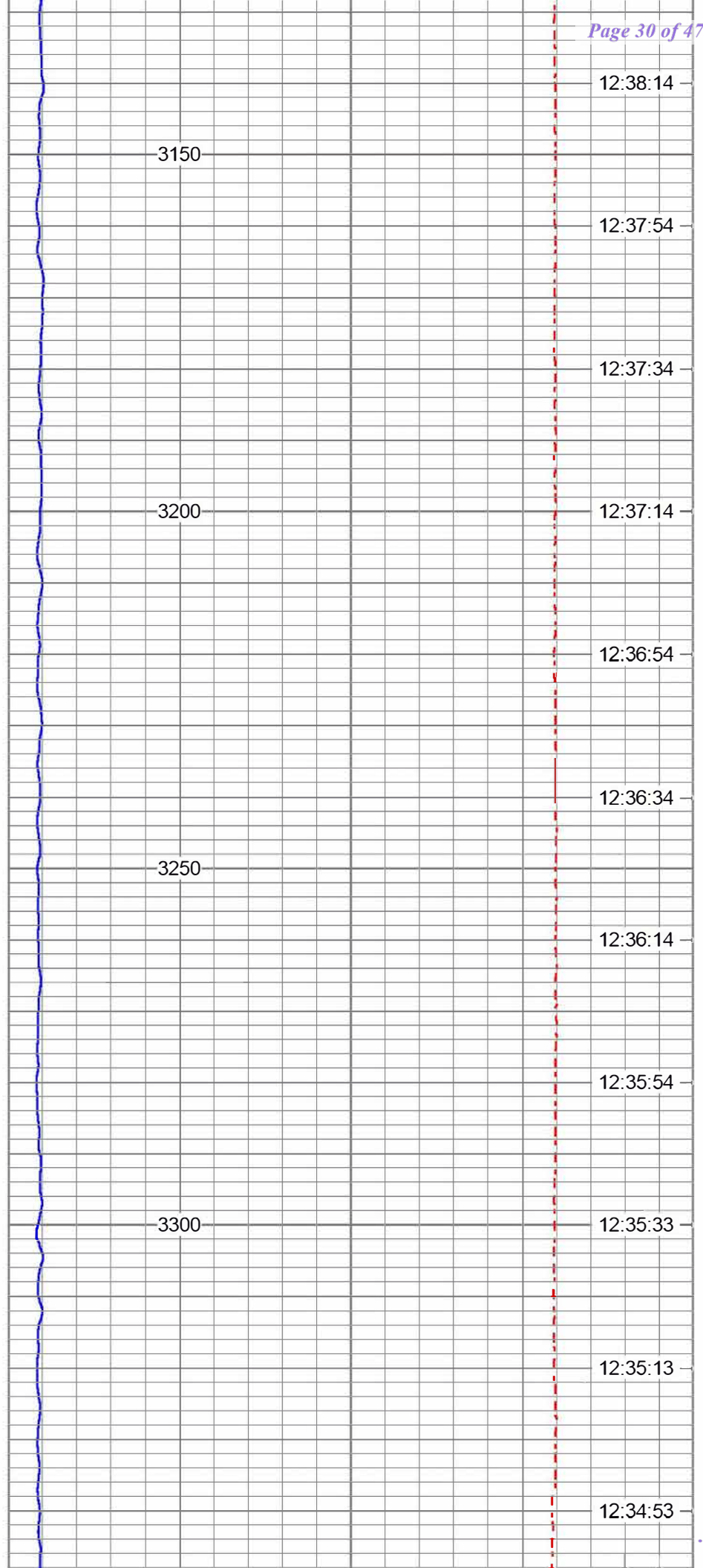
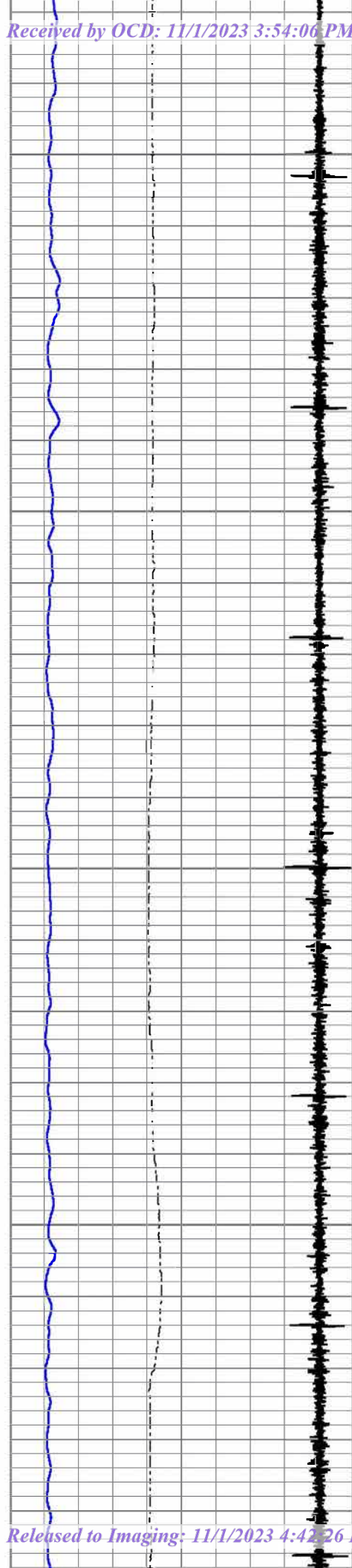


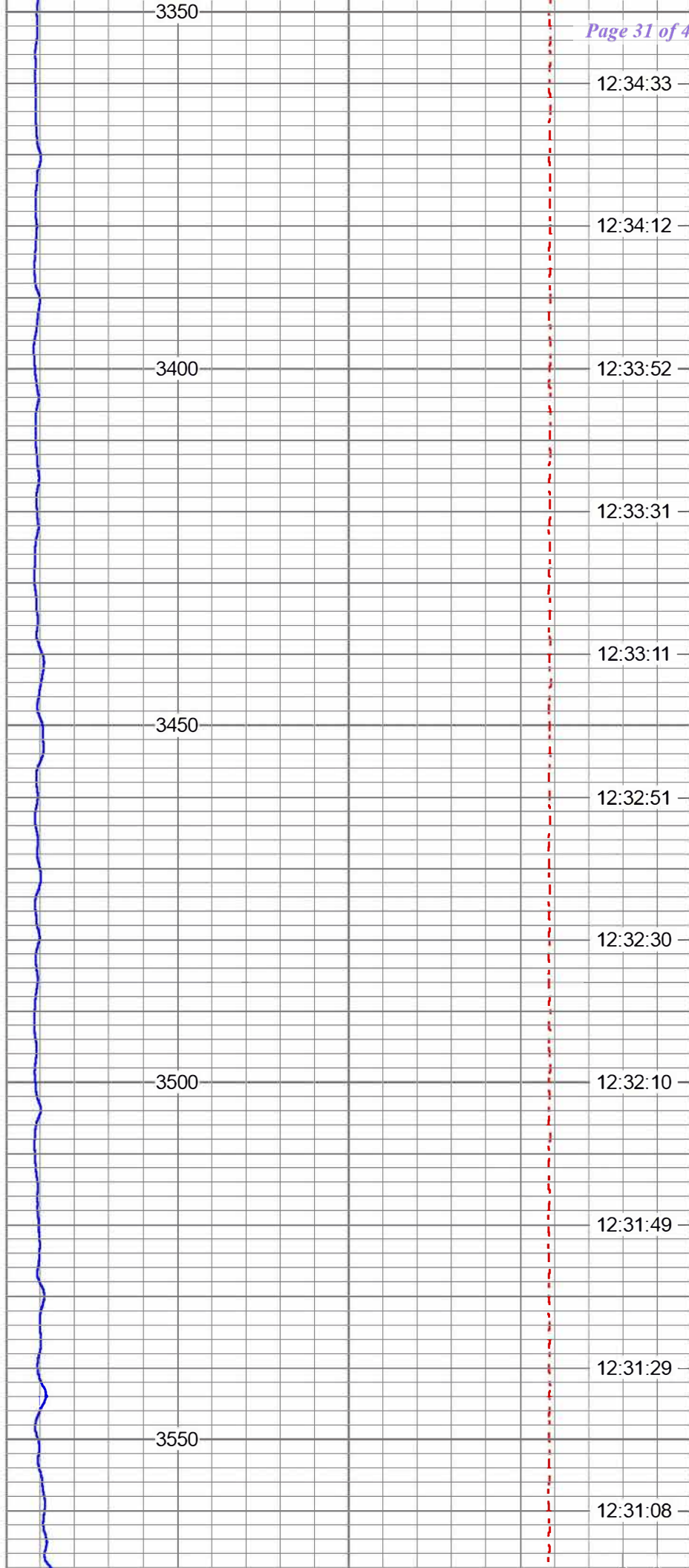
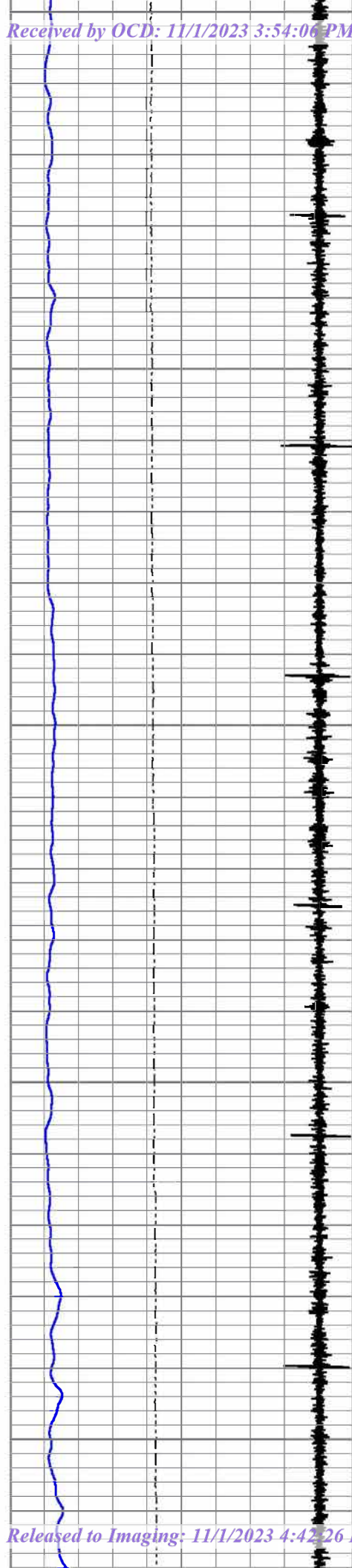
RUN #8

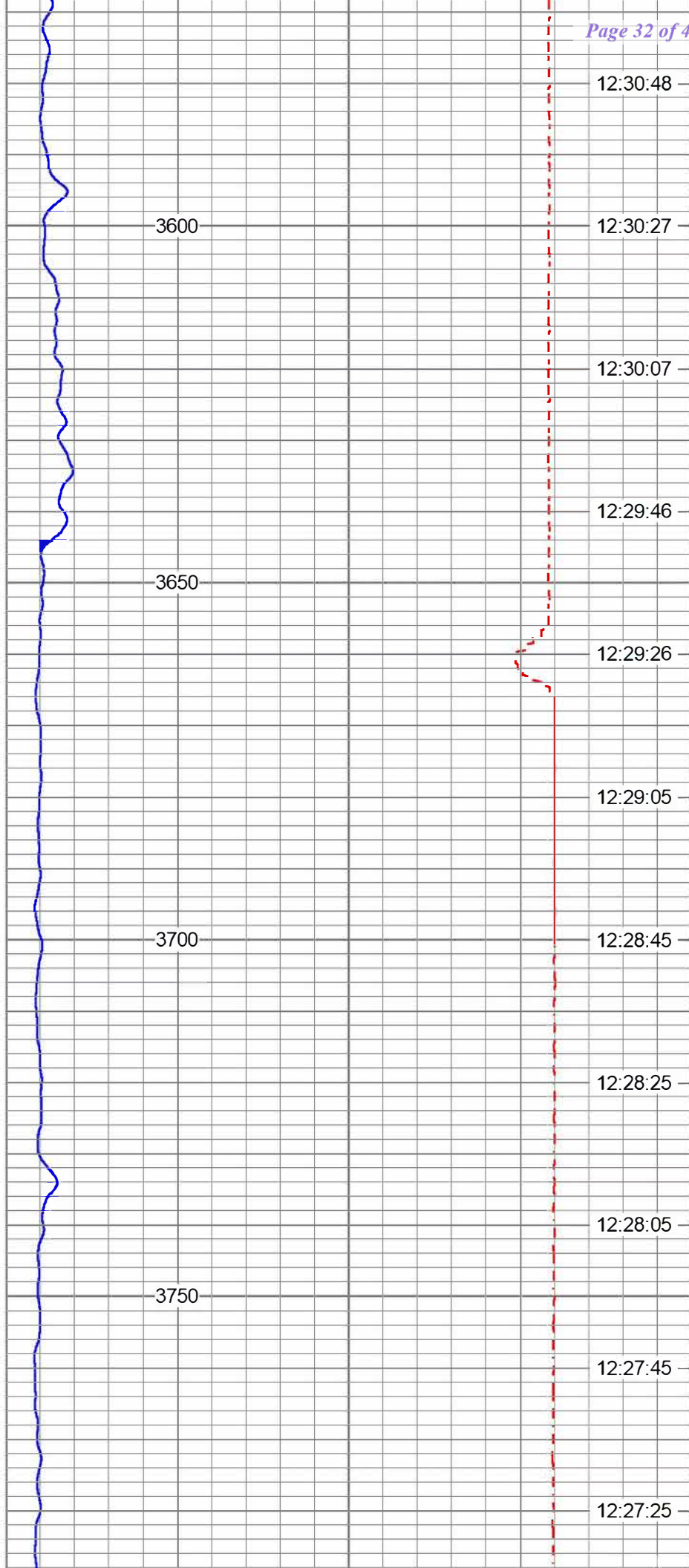
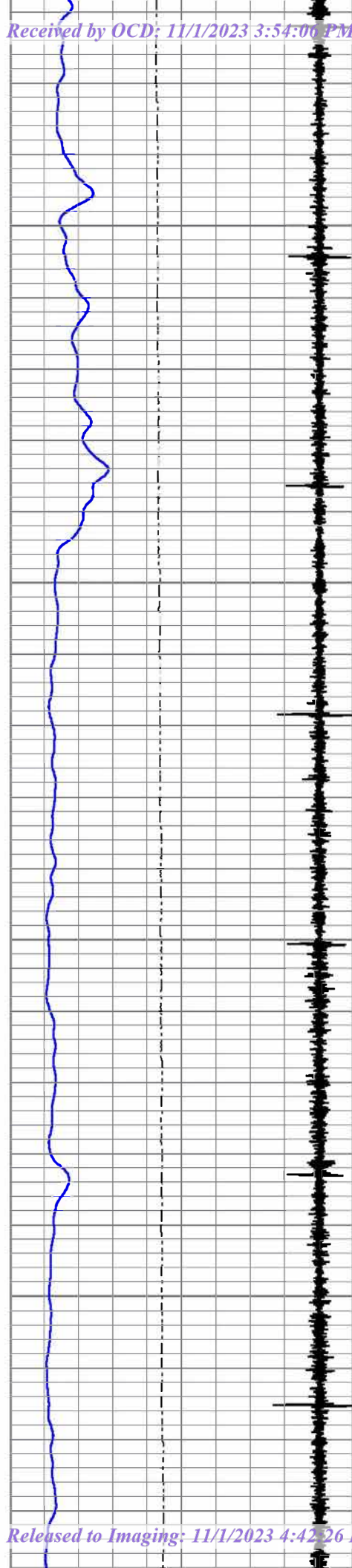
SLUG #2 CHASE #3 DISSIPATED
20 GPM @ 0 PSI

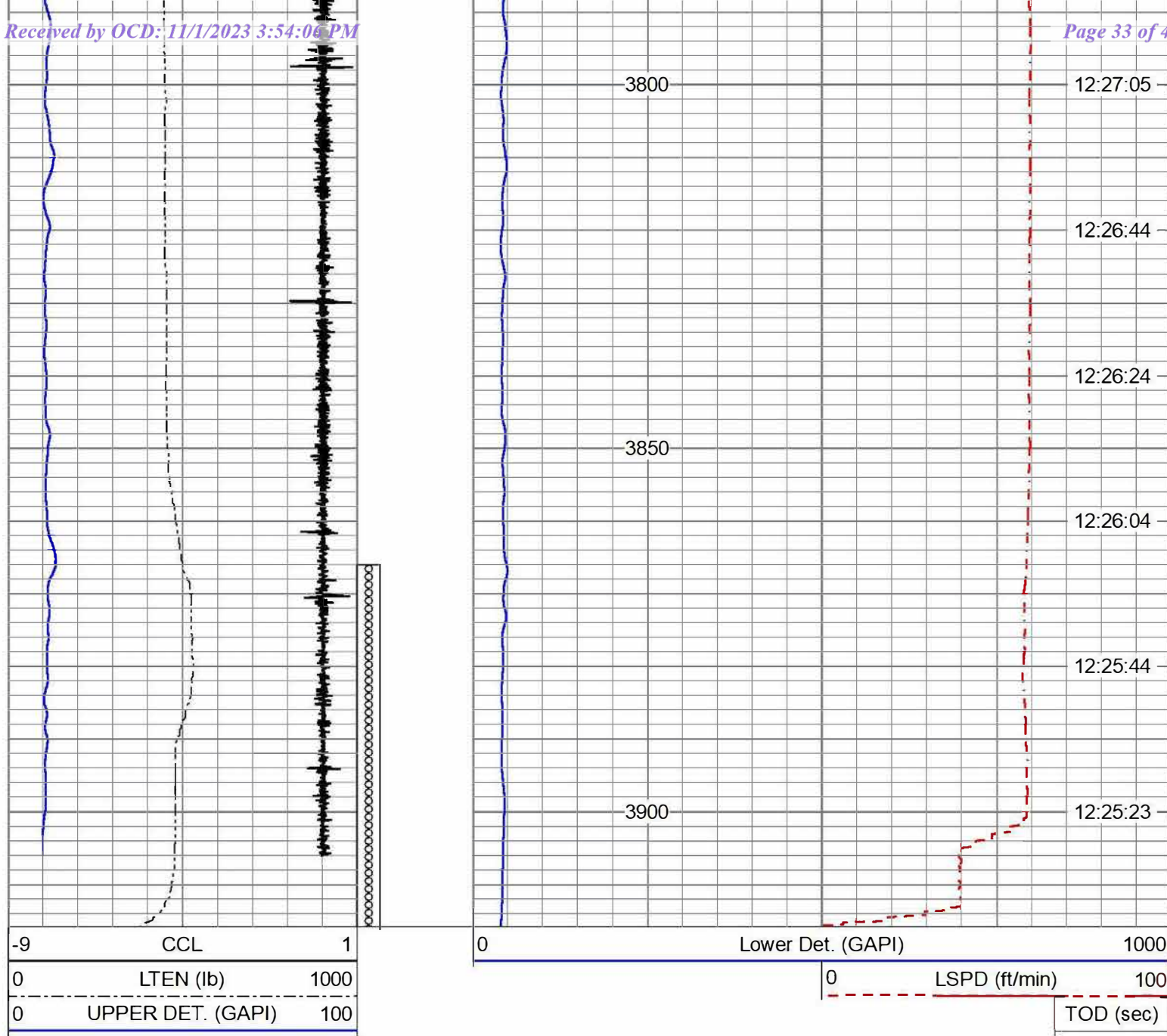
Database File 2023-10-25_marathon_new_mexico_swd1_rat.db
Dataset Pathname langlie_mattix/SWD1/SLUG-2/pass3
Presentation Format a19k_tracergw
Dataset Creation Wed Oct 25 12:25:01 2023
Charted by Depth in Feet scaled 1:240











SLUG-2

COMPOSITE

Database File 2023-10-25_marathon_new_mexico_swd1_rat.db
Dataset Pathname langlie_mattix/SWD1/SLUG-2/_profile1_
Presentation Format trcprof
Dataset Creation Wed Oct 25 12:41:48 2023
Charted by Depth in Feet scaled 1:600

0

TRACER

1000

2650

2700

2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250

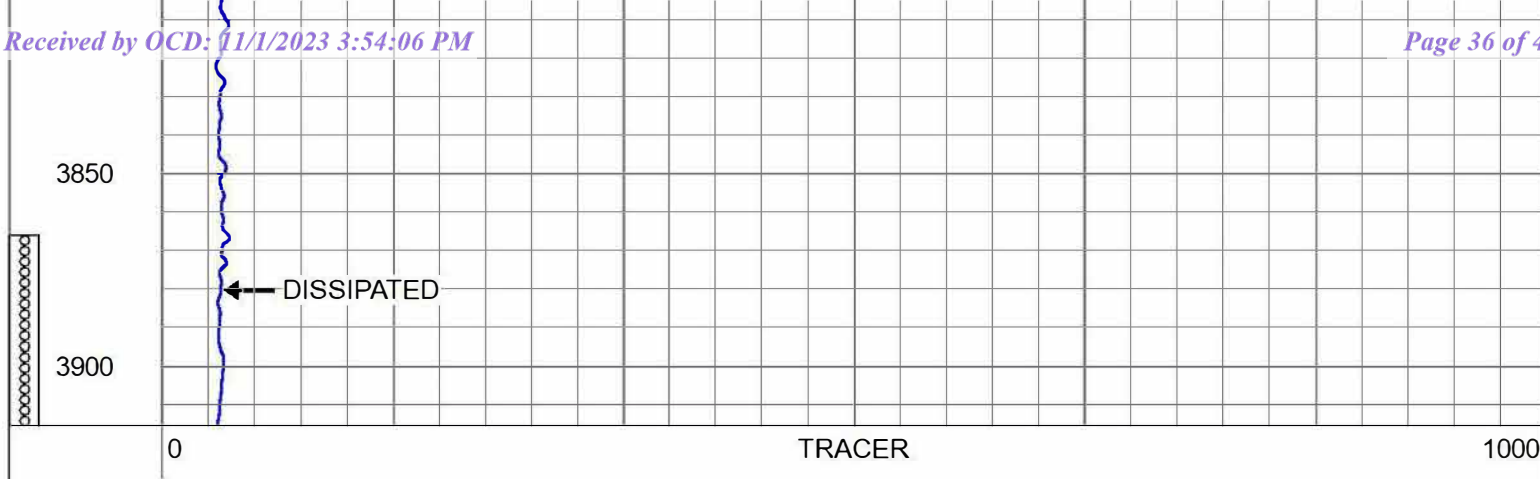
CHASE #1

12:14:05

CHASE #2

3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800

12:31:40

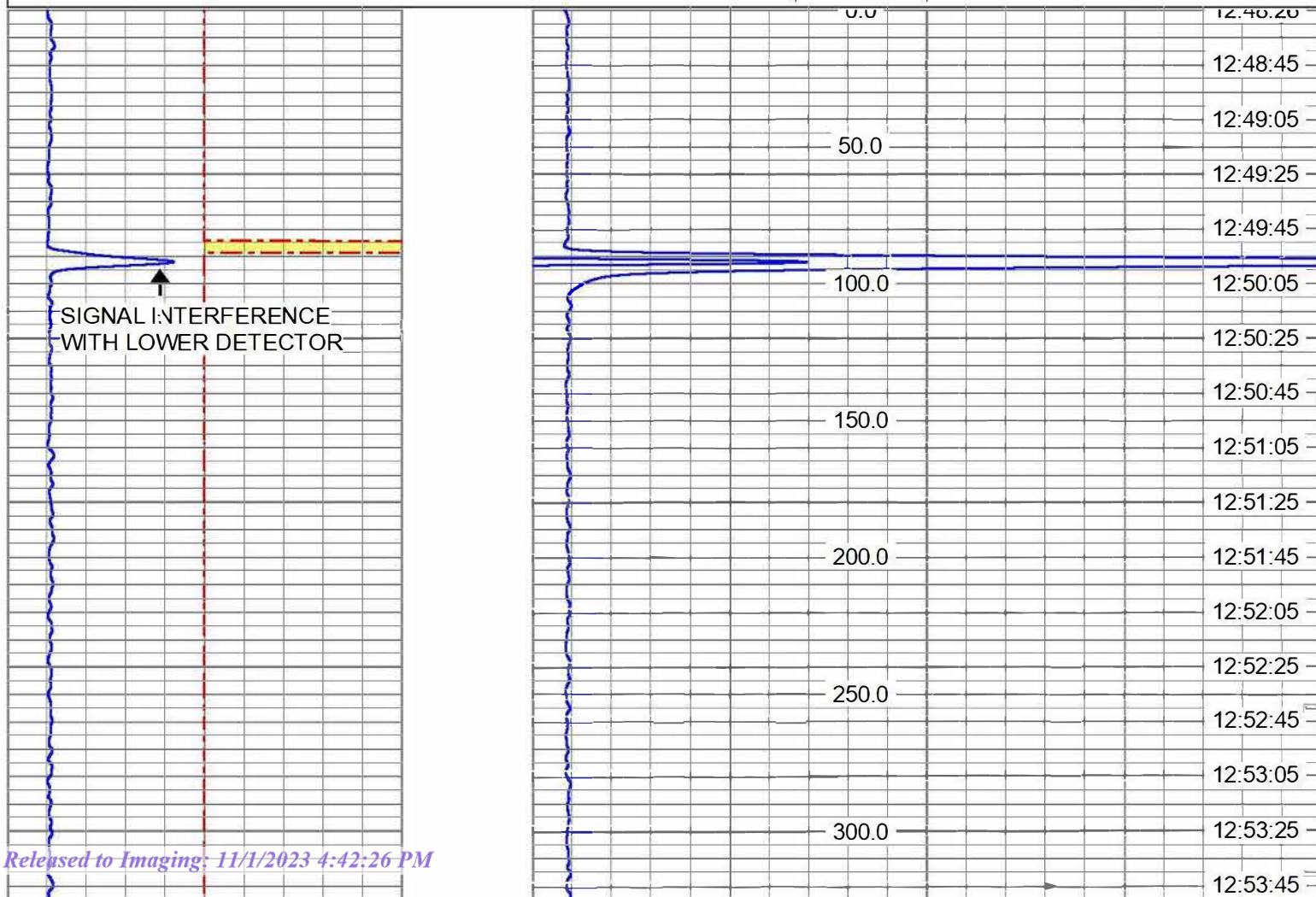


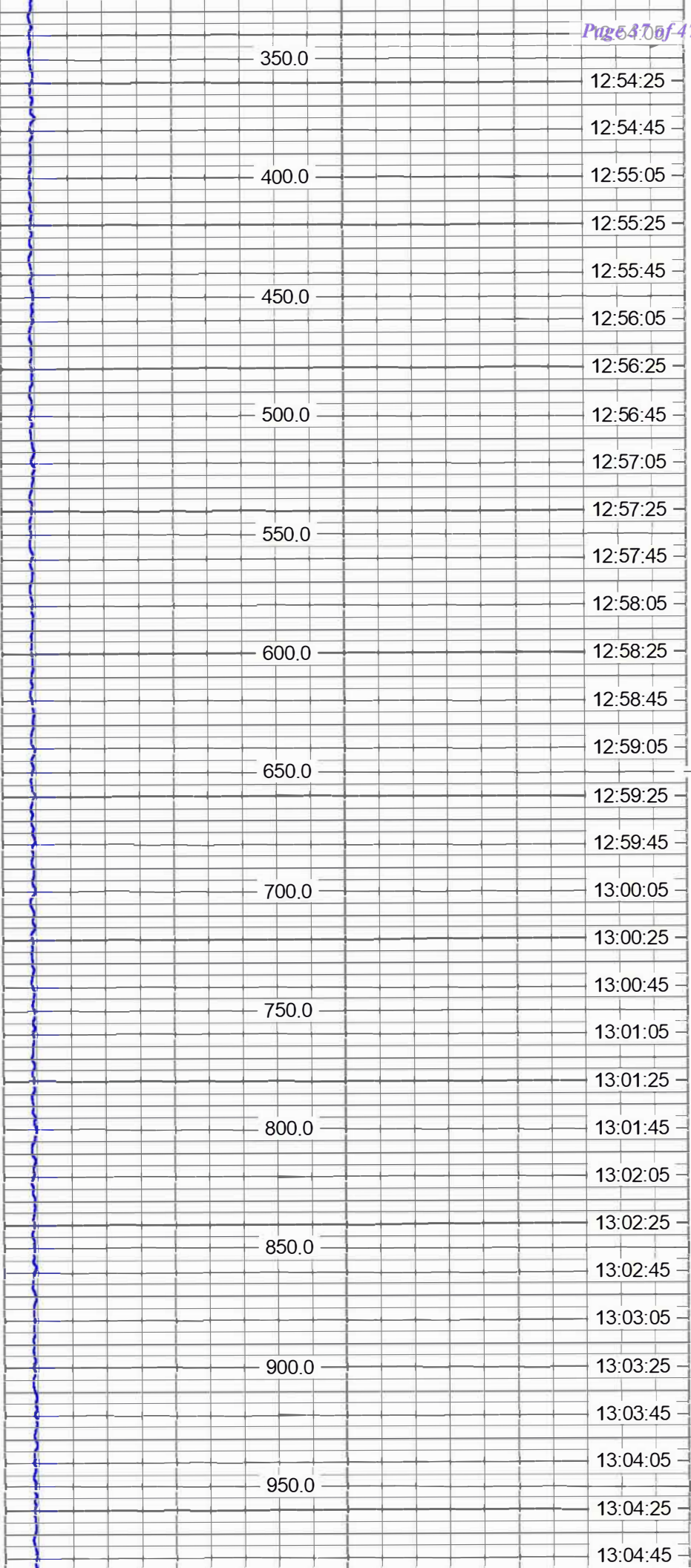
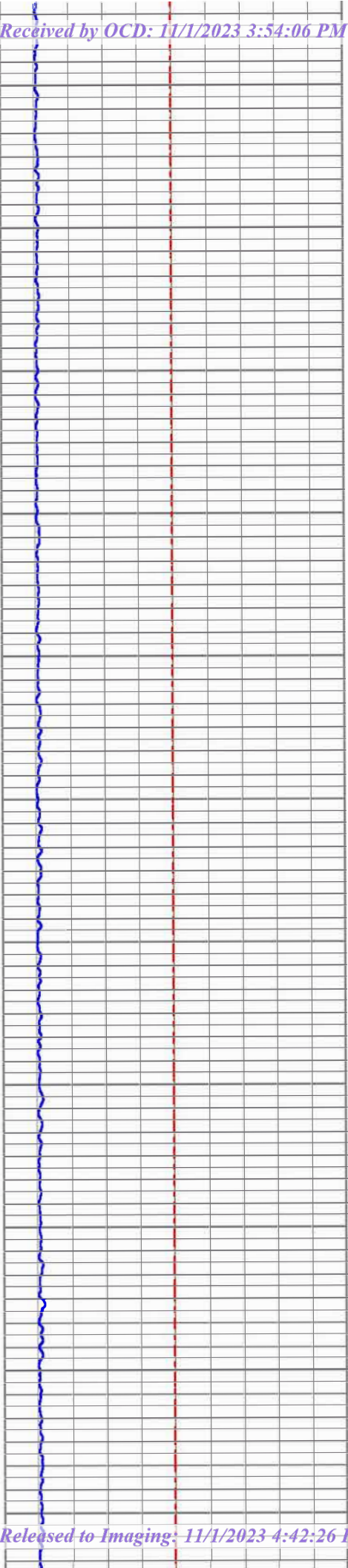
RUN #9

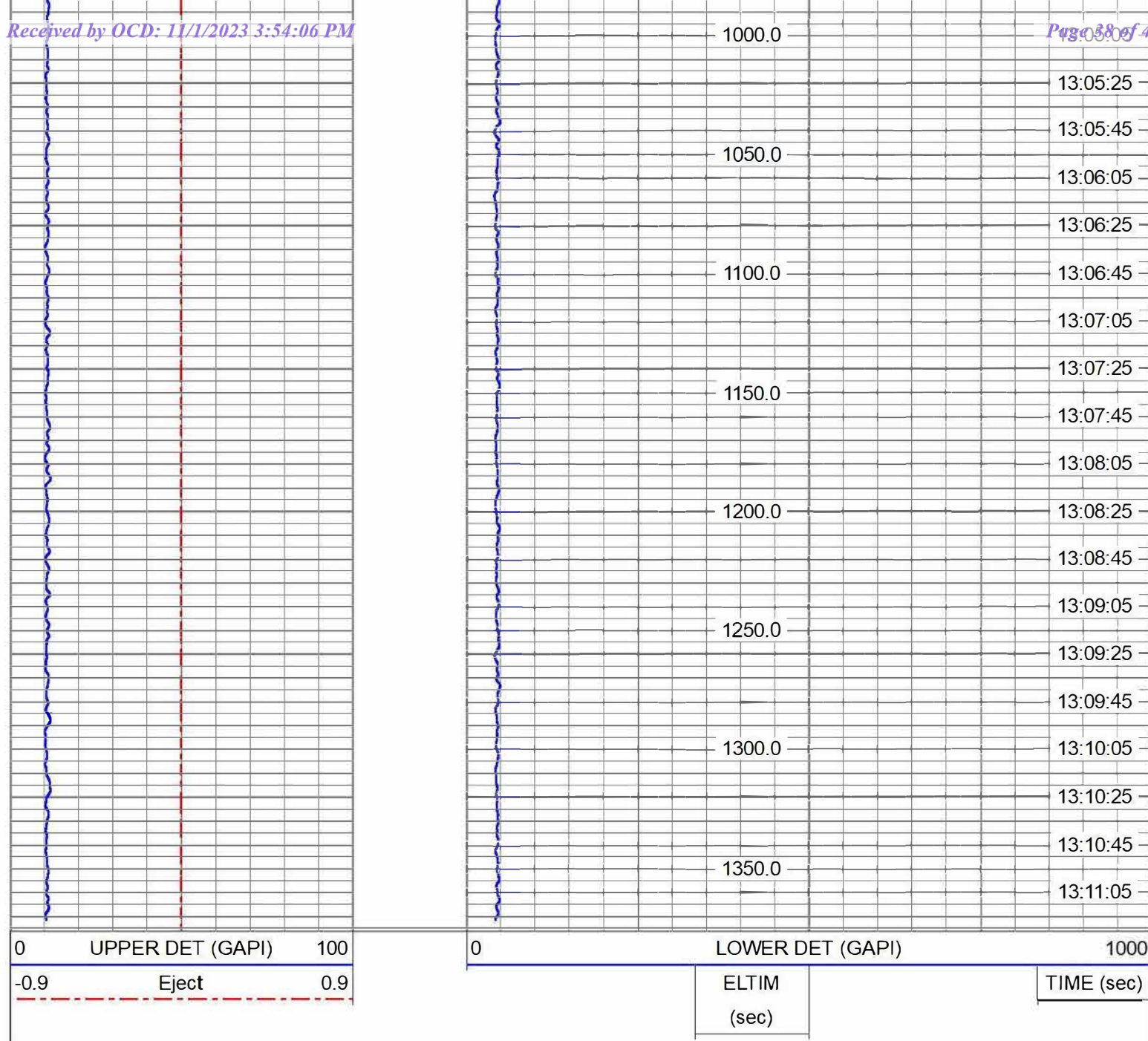
TIME DRIVE @ 3850'
20 GPM @ 0 PSI

Database File 2023-10-25_marathon_new_mexico_swd1_rat.db
Dataset Pathname langlie_mattix/SWD1/TD/pass1
Presentation Format tratmd
Dataset Creation Wed Oct 25 12:48:26 2023
Charted by Time scaled 60/hour

0	UPPER DET (GAPI)	100	0	LOWER DET (GAPI)	1000
-0.9	Eject	0.9	ELTIM	TIME (sec)	
			(sec)		





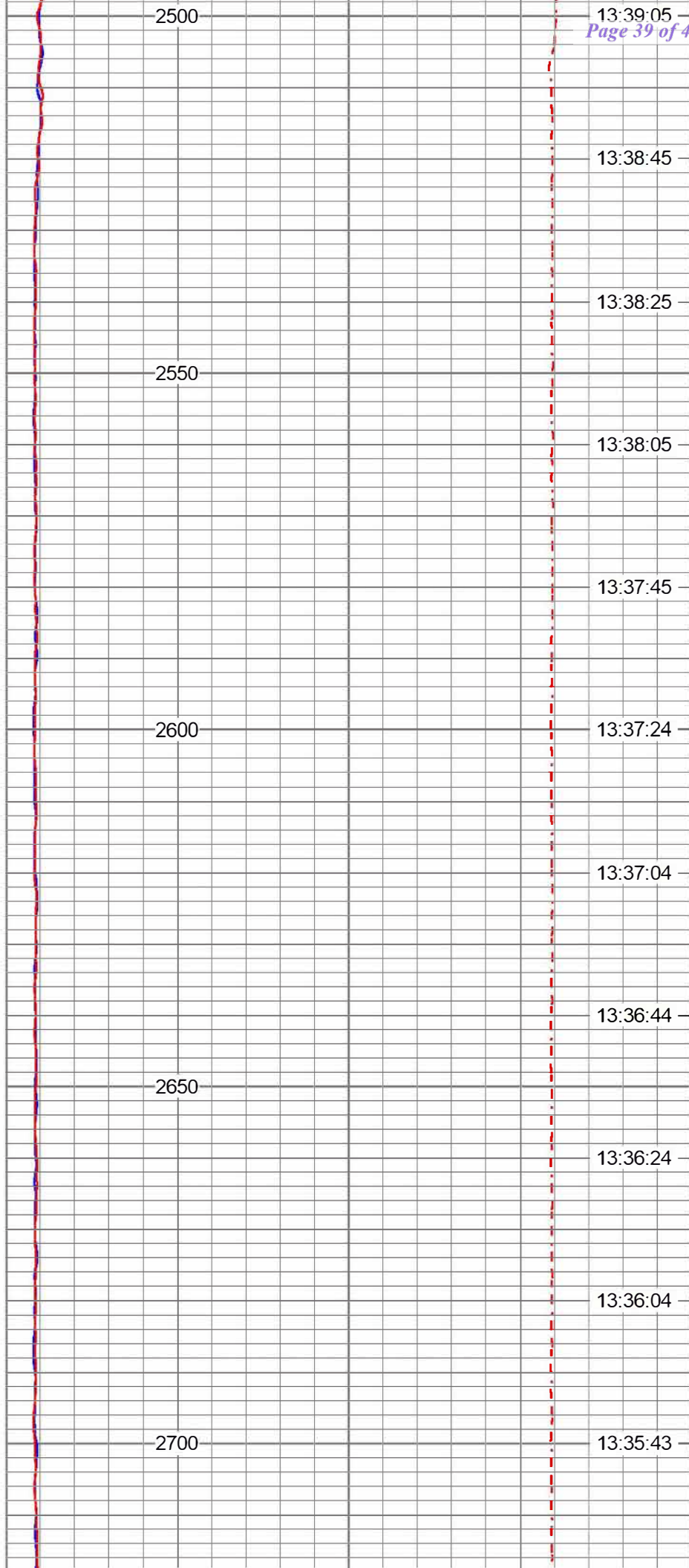
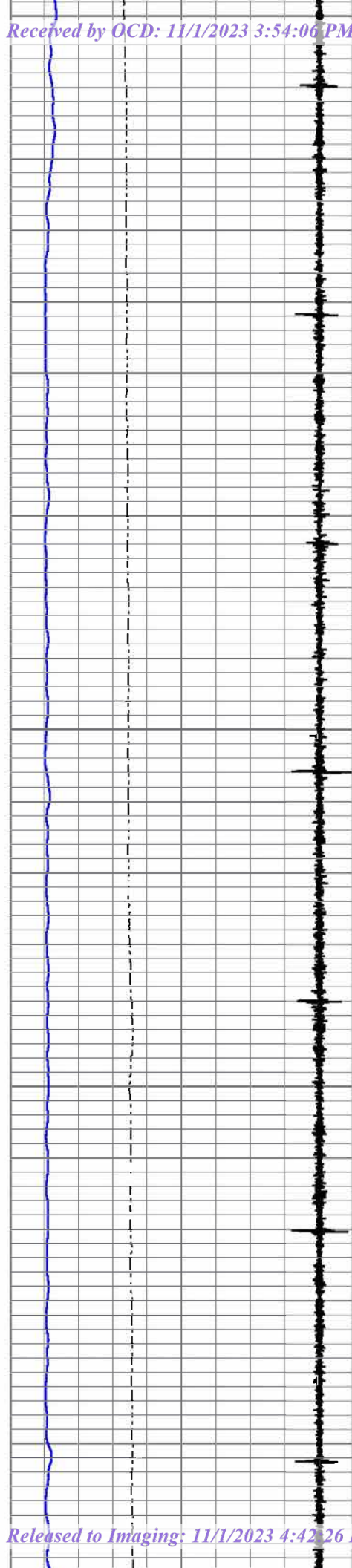


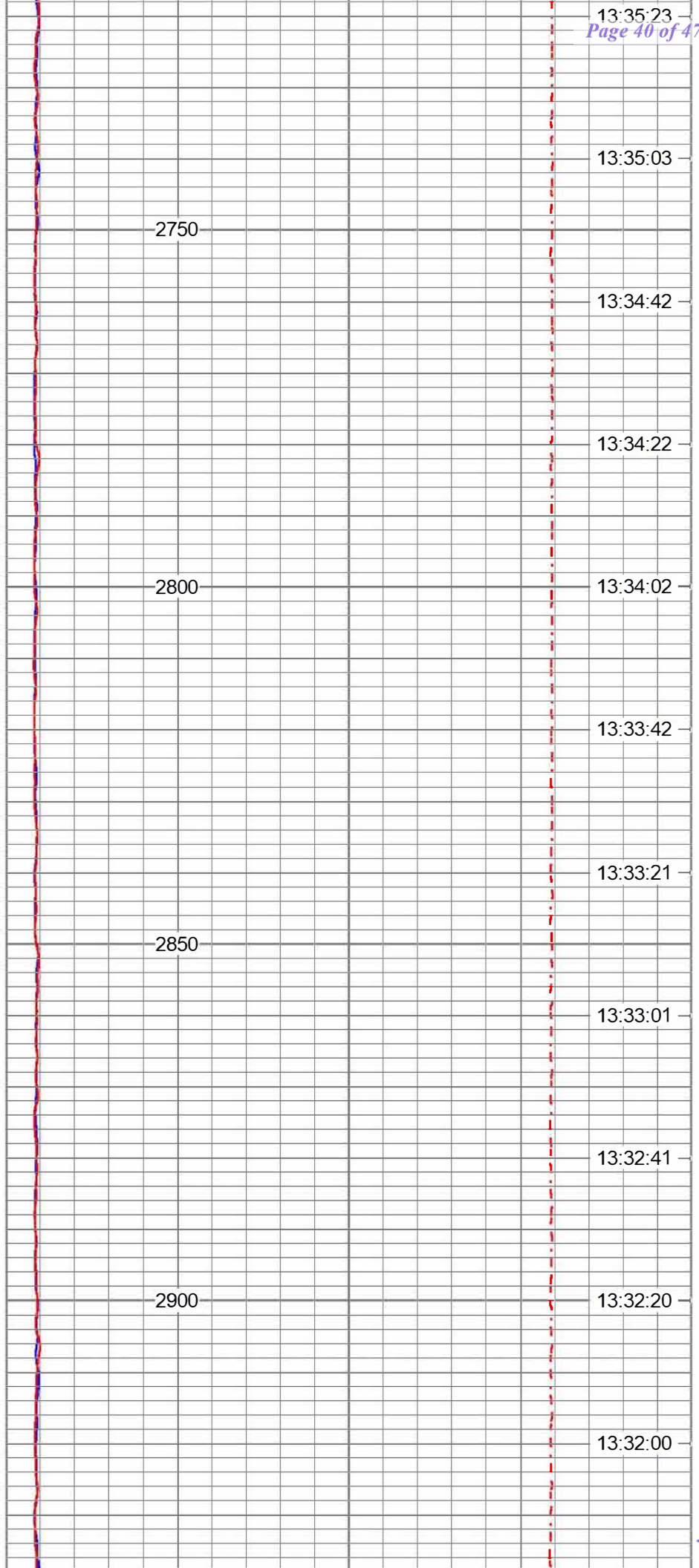
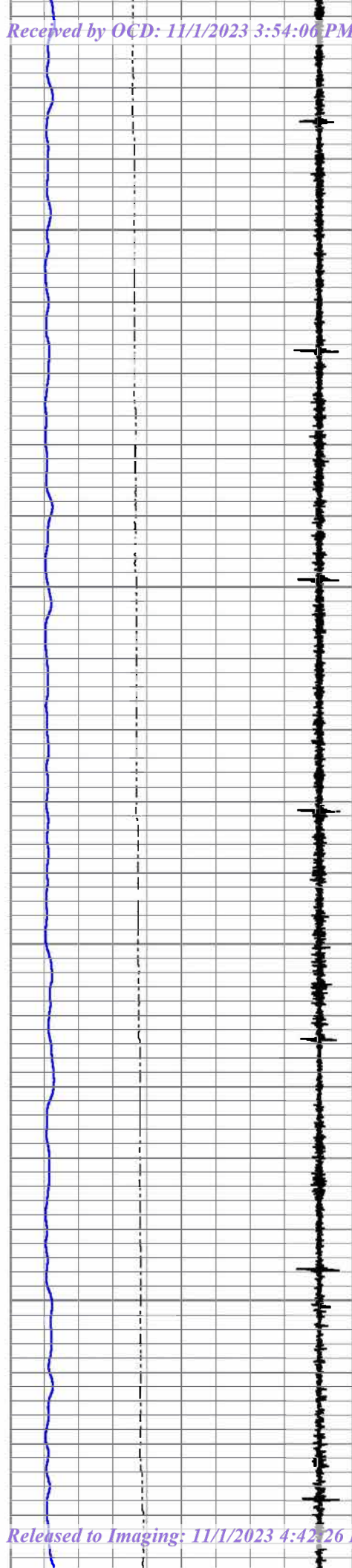
RUN #10

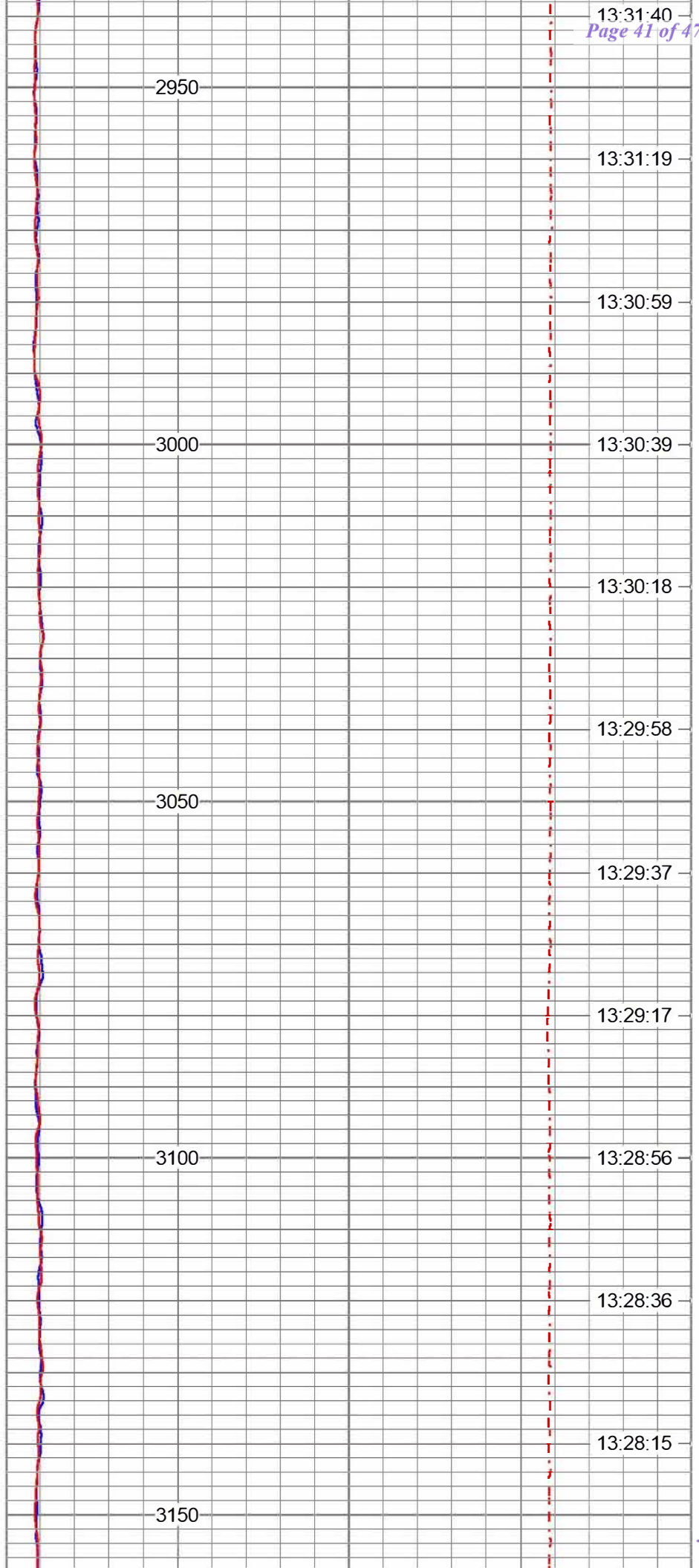
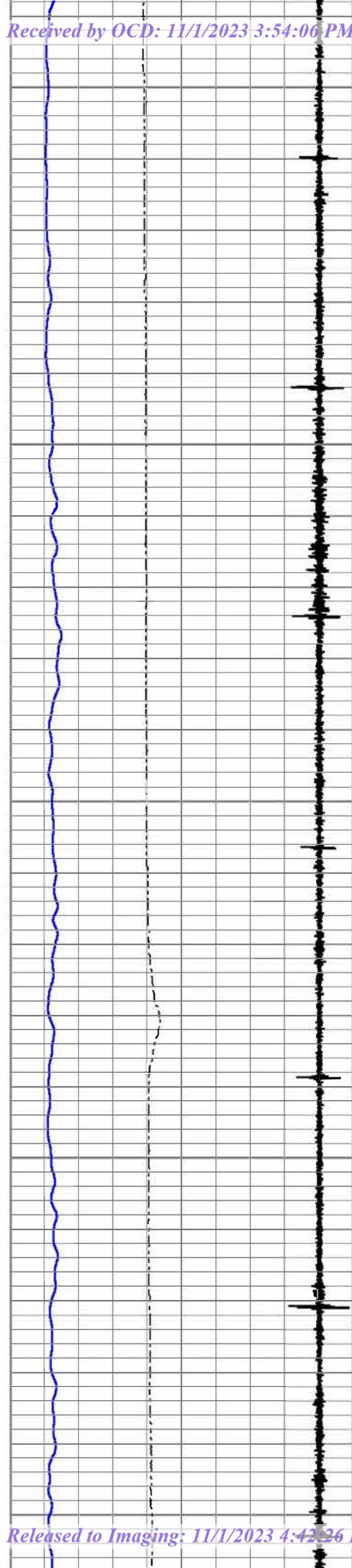
POST-SURVEY BASE LOG
0 GPM @ 0 PSI

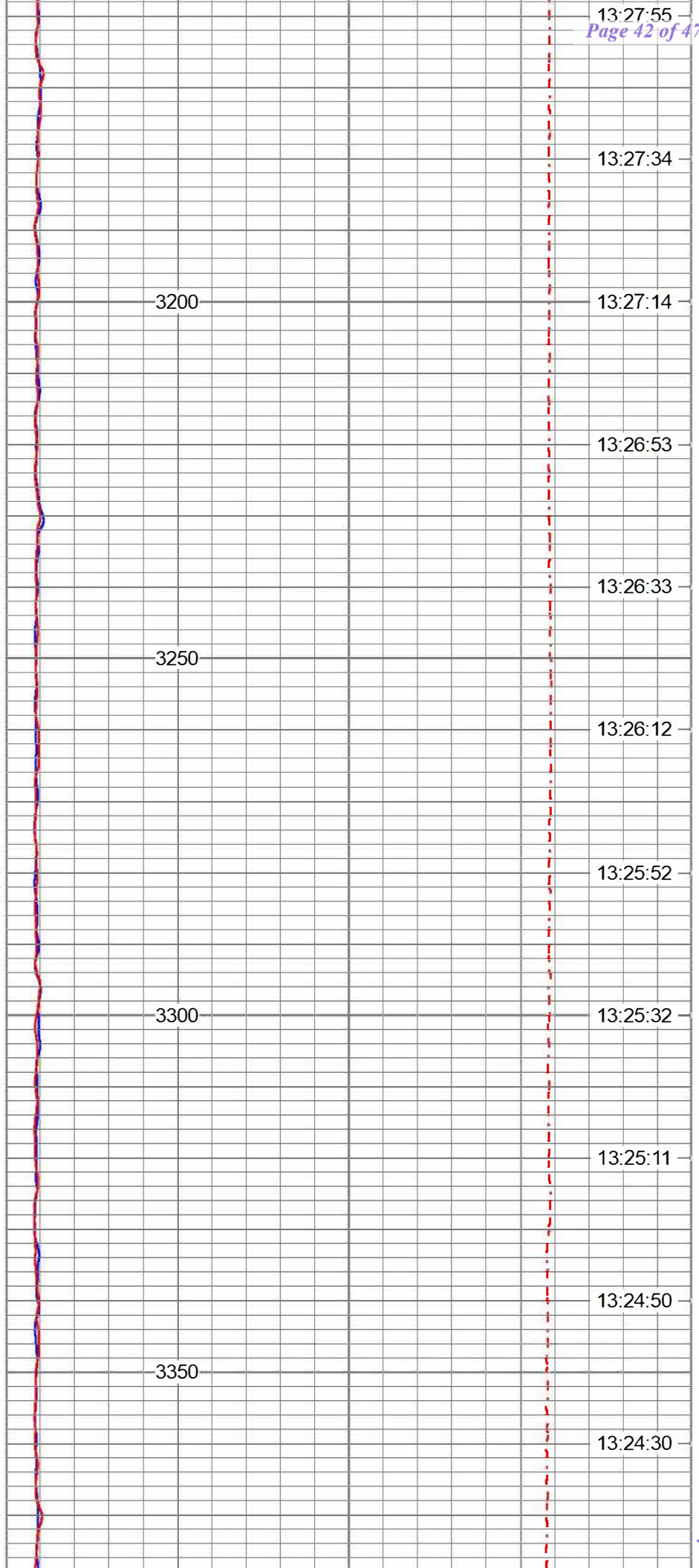
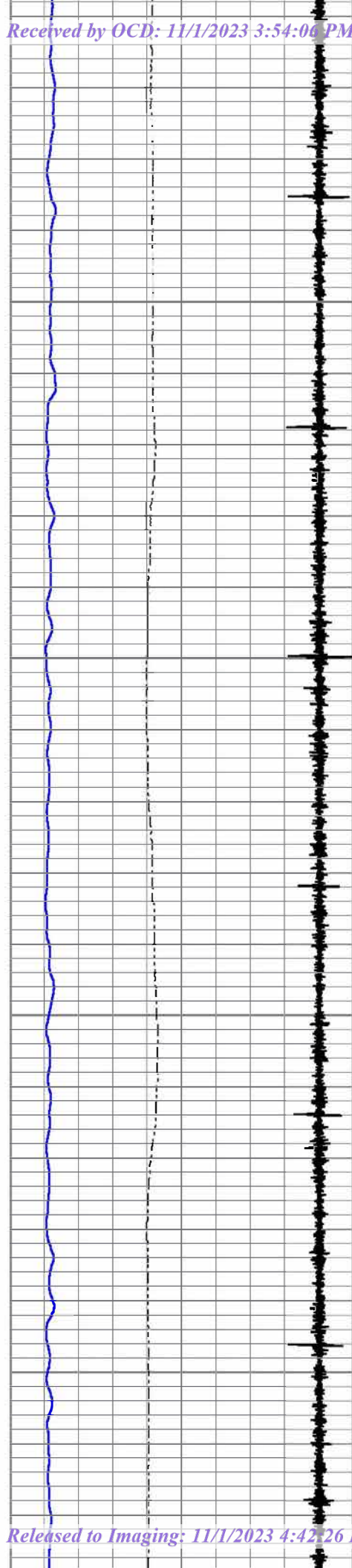
Database File 2023-10-25_marathon_new_mexico_swd1_rat.db
Dataset Pathname langlie_mattix/SWD1/POSTBASE/pass1
Presentation Format a19k_tracergw
Dataset Creation Wed Oct 25 13:14:03 2023
Charted by Depth in Feet scaled 1:240

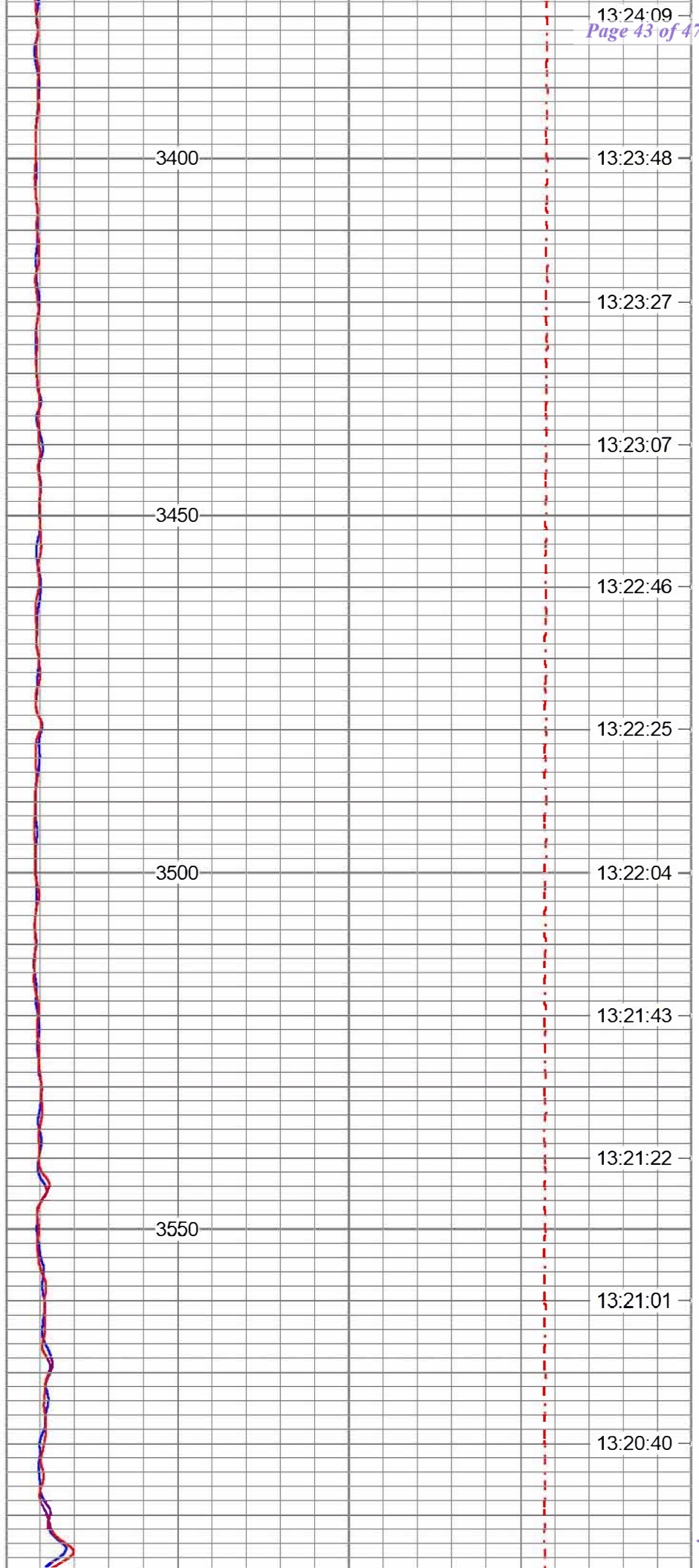
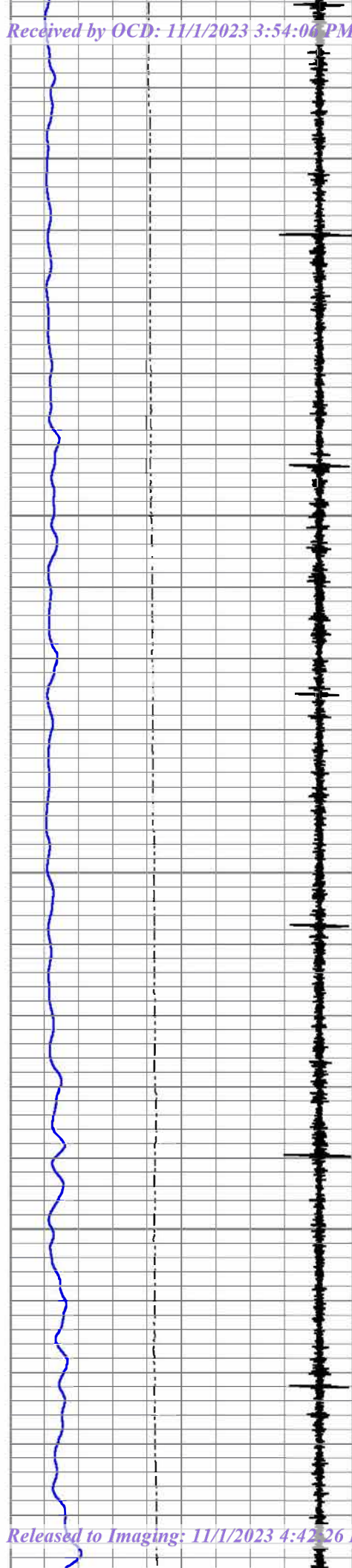
-9	CCL	1	0	Lower Det. (GAPI)	1000
0	LTEN (lb)	1000	0	PREBASE/pass1/DET2 (GAPI)	1000
0	UPPER DET. (GAPI)	100	0	LSPD (ft/min)	100
				TOD (sec)	

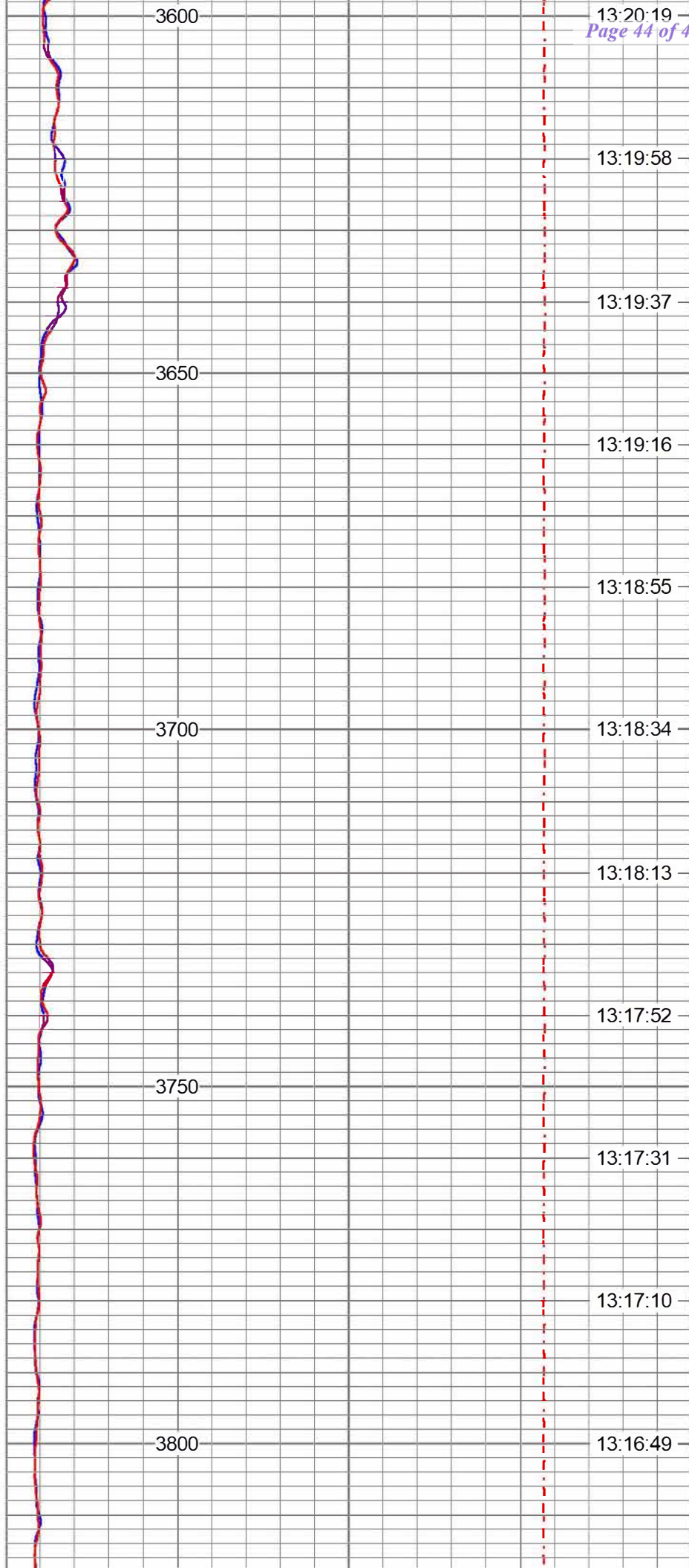
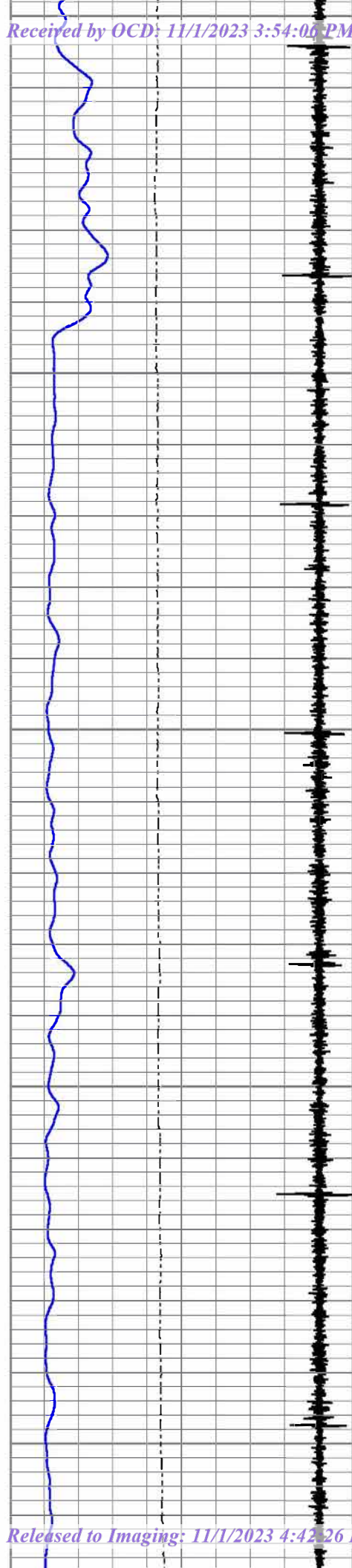


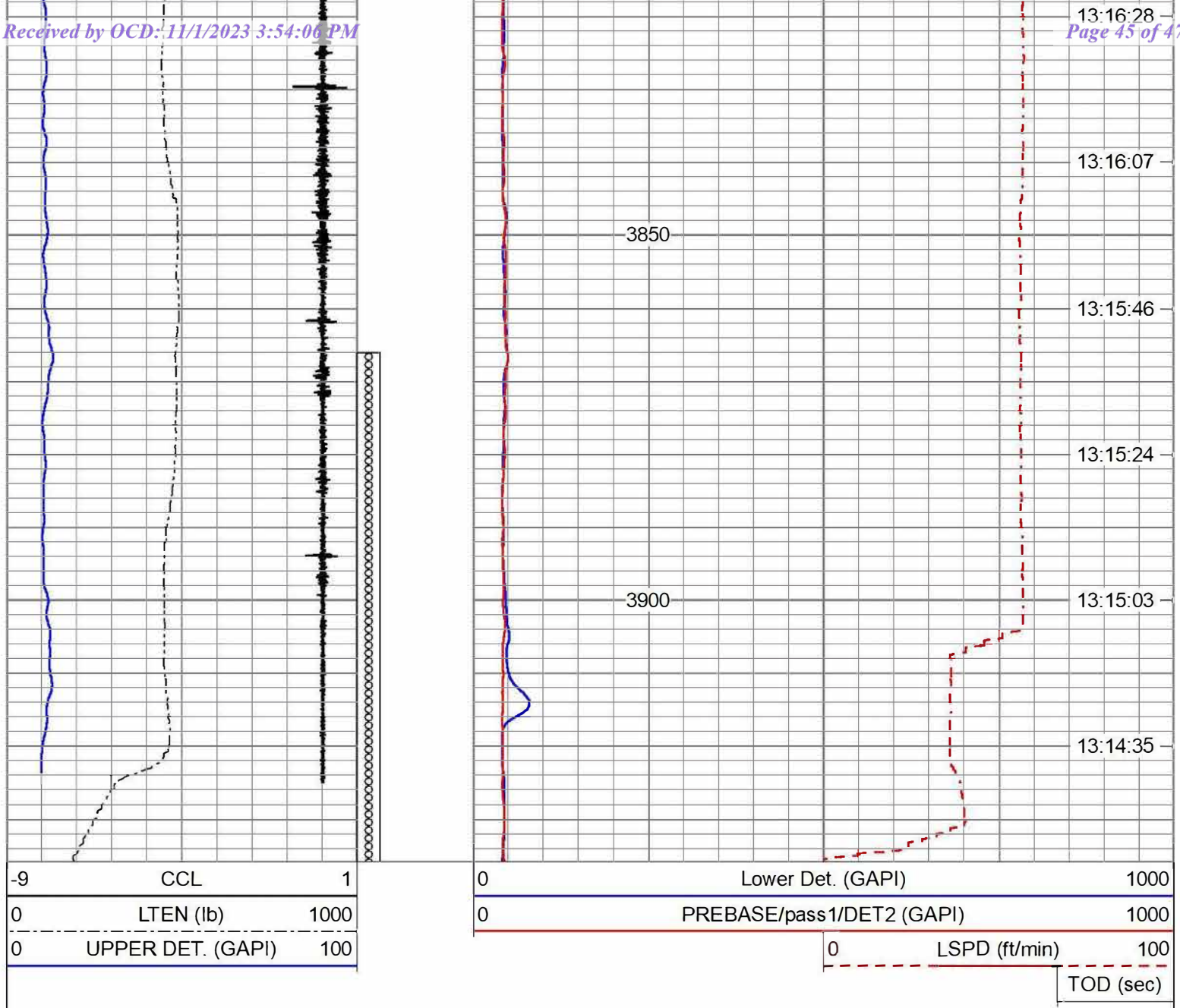












Company	MARATHON - WESTERN REFINING
Well	SHELL STATE "13" SWD
Field	LANGLIE MATTIX
County	LEA
State	NM
	Country

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

COMMENTS

Action 281956

COMMENTS

Operator: WESTERN REFINING COMPANY, L.P. 15 Smith Road Midland, TX 79705	OGRID: 248440
	Action Number: 281956
	Action Type: [C-103] Sub. General Sundry (C-103Z)

COMMENTS

Created By	Comment	Comment Date
cchavez	Annual Radioactive Tracer Test Final Report	11/1/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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	Action Number: 281956
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
cchavez	None	11/1/2023