

Submit 1 Copy To Appropriate District

Office

District I – (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

District II – (575) 748-1283

811 S. First St., Artesia, NM 88210

District III – (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87410

District IV – (505) 476-3460

1220 S. St. Francis Dr., Santa Fe, NM

87505

State of New Mexico  
Energy, Minerals and Natural ResourcesForm C-103  
Revised July 18, 2013OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.

30-045-32334

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil &amp; Gas Lease No.

FEDERAL NMNM101552

7. Lease Name or Unit Agreement Name

SALTY DOG SWD

8. Well Number

4

9. OGRID Number

372171

10. Pool name or Wildcat

SWD

## 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 SWD

2. Name of Operator

HILCORP ENERGY COMPANY

3. Address of Operator

382 Road 3100, Aztec, NM 87410

4. Well Location

Unit Letter K : 2580' feet from the South line and 1890' feet from the West lineSection 01 Township 30N Range 14W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

5726'

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

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐DOWNHOLE COMMINGLE ☐CLOSED-LOOP SYSTEM ☐OTHER: ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ P AND A ☐CASING/CEMENT JOB ☐OTHER: Injection Profile Log ☒

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.

Hilcorp Energy has completed the Injection Profile Log for the subject well as outlined in the UIC Permit SWD-2571 II. Special Conditions (1). The log was also submitted via OCD Permitting. See attached.

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 Priscilla Shorty TITLE Operations/Regulatory Technician – Sr. DATE 3/4/2025Type or print name Priscilla Shorty E-mail address: pshorty@hilcorp.com PHONE: (505)324-5188**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):



INJECTION  
PROFILE

Company		HILCORP ENERGY	
Well		SALTY DOG SWD #4	
Field		SAN JUAN BASIN	
County		SAN JUAN	
State		NEW MEXICO	
Country		USA	
Location:		LAT: 36.842764 LONG: -108.262965	
Permanent Datum		GROUND LEVEL	
Log Measured From		9' PERMANENT DATUM	
Drilling Measured From		KELLY BUSHING	
SEC		N/A TWP N/A RGE N/A	
State		NEW MEXICO	
Country		USA	
API # :		30-045-32334	
Other Services		1HR SHUT IN	
Elevation		K.B. 5735' D.F. 5734' G.L. 5726'	
Date		2-21-2025	
Run Number		ONE	
Depth Driller		4406'	
Depth Logger		4137'	
Bottom Logged Interval		4135'	
Top Log Interval		2650'	
Open Hole Size		CASED HOLE	
Type Fluid		H2O	
Density / Viscosity		N/A	
Max. Recorded Temp.		104 DEG F	
Estimated Cement Top		N/A	
Time Well Ready		ROA	
Time Logger on Bottom		8:00AM	
Equipment Number		HU #123	
Location		LEVELLAND, TX	
Recorded By		K. BALLARD	
Witnessed By		STEVEN JAQUEZ	
Borehole Record		Tubing Record	
From Bit		To	
Size		Weight	
2.875"		6.5#	
From		To	
SURFACE		2925'	
Casing Record		Size	
Sauce String		Wgt/Ft	
Pr String		Top	
Production String		SURFACE	
Line		Bottom	
5.5"		15.5#	
		4406'	

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments


THIS LOG WAS CORRELATED TO AN ACOUSTIC CEMENT BOND LOG  
RAN BY COMPUTA LOG ON 4-2-2005.  
USING A 9' KB LOGGER SHIFTED UP 10'.


PERFORATIONS / OPEN HOLE INTERVALS


PERFS: 3118'-4270'

CONCLUSIONS

NOTE: THIS LOG WAS RAN TO DETERMINE LOSSES THROUGHOUT THE WELLBORE.  
NOTE: A SAMPLE WAS RETREIVED FROM THE WELLBORE @ 4137'.  
NOTE: ALL PRESSURE READINGS WERE GATHERED FROM THE GAUGE ON LUBRICATOR.  
NOTE: FLUID RATES ARE CALCULATED IN B/D AFTER CALCULATIONS.  
NOTE: CALIPER SHOWS HEAVY SCALE AND BUILD UP INSIDE THE 5.5" CASING FROM 3054' DOWN TO LOGGER TD.  
NOTE: THERE WAS NO UPWARD CHANNEL DETECTED BY RA MATERIAL.  
NOTE: THERE WAS NO PACKER LEAK DETECTED BY RA MATERIAL.  
NOTE: COLD WATER SUPPLY CAUSES SHUT IN TEMP TO SHOW A COOLING EFFECT.  
NOTE: THERE WAS DOWNWARD CHANNEL DETECTED BY RA MATERIAL.  
NOTE: SURVEY INDICATES A MAJOR LOSS IN AN UNPERFORATED INTERVAL BETWEEN 2960'-2970'.  
NOTE: SHUT IN CROSSFLOWS REVEAL FLUID COMING INTO THE WELLBROE BETWEEN THE INTERVALS 4093'-4050', MOVING UP AND GOING AWAY BETWEEN 3200'-3180'.

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1.38CHD 1.38 Cable Head	1.00	1.38	2.00
			7' 1.375" Sinker Bar-1_375 Sinker bar Tungsten 7' Tungsten Weight Bar	7.00	1.38	54.00
			7' 1.375" Sinker Bar-1_375 Sinker bar Tungsten 7' Tungsten Weight Bar	7.00	1.38	54.00

CCL	5.68		CCL-1.375_Titan (007) Titan 1 3/8" CCL for Perforating	1.81	1.38	7.50
			XYC-PROBE (PROBE01) 1 3/8" Probe Caliper	5.65	1.38	20.00
YCAL	0.00					
XCAL	0.00					
LOCTIM	0.00					
UTCTIM	0.00					
Dataset: saltydog-swd-4.db: field/SALTYDOG-SWD#4/XCAL/pass4.1 Total length: 22.46 ft Total weight: 137.50 lb O.D.: 1.38 in						

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1.375CHD 1.375" Cable Head	1.03	1.38	3.60
			7' 1.375" Sinker Bar-1_375 Sinker bar Tungsten 7' Tungsten Weight Bar	7.00	1.38	54.00
			7' 1.375" Sinker Bar-1_375 Sinker bar Tungsten 7' Tungsten Weight Bar	7.00	1.38	54.00

				TREJCT-CO2 (CO2_1) K&C	3.25	1.38	5.00
CCL	3.75			CCL-Probe (Probe_1) 1 3/8" Probe Logging CCL	1.75	1.38	5.00
				TRDET-Probe2 (Probe_2) 1 3/8" Probe Bottom Gamma	4.00	1.38	15.00
DET	0.00						
LOCTIM	0.00						
UTCTIM	0.00			DUMTEMP-Probe (DUMTMP-PROBE)	1.55	1.38	4.00
Dataset: saltydog-swd-4.db: field/SALTYDOG-SWD#4/VELO/pass36 Total length: 25.58 ft Total weight: 140.60 lb O.D.: 1.38 in							

Company:  
Well:  
File: C:\ProgramData\Warrior\Data\saltydog-swd-4.db  
Dataset: field/SALTYDOG-SWD#4/TRACER/\_tracer/\_shottabl\_/1  
Reference Rate: 3588.3 b/d

TRACER RESULTS

#	Depth (ft)	Time	Integration	Flow (%)	Delta (%)	Comment
1	2775.00	11:16:21	227266.00	100.00		
2	2935.00	11:16:48	227266.00	100.00	0.00	
3	2970.00	11:17:13	77579.00	34.14	65.86	
4	2985.00	11:17:58	77559.00	34.13	0.01	
5	3020.00	11:18:32	77099.00	33.92	0.20	
6	3045.00	11:19:01	77099.00	33.92	0.00	
7	3070.00	11:19:38	76971.00	33.87	0.06	
8	3115.00	11:20:09	76851.00	33.82	0.05	
9	3160.00	11:20:38	59707.00	26.27	7.54	
10	3220.00	11:21:20	55307.00	24.34	1.94	
12	3330.00	11:22:10	54967.00	24.19	0.15	
13	3400.00	11:22:51	54957.00	24.18	0.00	
14	3470.00	11:23:33	54907.00	24.16	0.02	
15	3540.00	11:24:14	54907.00	24.16	0.00	
16	3620.00	11:25:03	54727.00	24.08	0.08	
17	3715.00	11:26:08	54227.00	23.86	0.22	
18	3790.00	11:26:51	53827.00	23.68	0.18	
19	3850.00	11:27:22	53727.00	23.64	0.04	



19	3850.00	11:27:39	53727.00	23.64	0.04	
20	3900.00	11:28:23	53382.100	23.64	0.00	
21	3960.00	11:29:18	53027.00	23.33	0.31	
22	4010.00	11:30:03	42885.00	18.87	4.46	
23	4020.00	11:30:51	3320.00	1.46	17.41	
24	4030.00	11:33:54	3220.00	1.42	0.04	
26	4050.00	11:37:30	2920.00	1.28	0.13	
27	4074.00	11:39:56	0.00	0.00	1.28	

## VELOCITY FROM TRACER

#	Depth (ft)	Time	D Space (ft)	D Time (sec)	Flow (b/d)	Flow (%)	Delta (b/d)	Delta (%)
28	2935	11:16:48	159.50	26.29	3588.32	100.00		
29	2970	11:17:13	26.11	25.23	1225.42	34.15	2362.90	65.85
30	2985	11:17:58	16.72	25.91	1224.56	34.13	0.86	0.02
31	3020	11:18:32	35.75	52.36	1217.29	33.92	7.27	0.20
32	3045	11:19:01	24.45	30.20	1217.01	33.92	0.28	0.01
33	3070	11:19:38	36.65	34.70	1215.11	33.86	1.90	0.05
34	3115	11:20:09	44.50	31.88	1213.55	33.82	1.56	0.04
35	3160	11:20:38	45.00	28.48	942.43	26.26	271.12	7.56
36	3220	11:21:20	60.00	40.97	873.66	24.35	68.77	1.92
37	3330	11:22:10	95.00	49.14	867.13	24.17	6.53	0.18
38	3400	11:22:51	71.70	41.28	867.06	24.16	0.06	0.00
39	3470	11:23:33	71.20	41.82	866.06	24.14	1.01	0.03
40	3540	11:24:14	64.00	40.45	865.46	24.12	0.60	0.02
41	3620	11:25:03	72.00	45.75	860.99	23.99	4.47	0.12
42	3715	11:26:08	108.00	66.21	852.96	23.77	8.03	0.22
43	3790	11:26:51	73.00	44.86	850.95	23.71	2.01	0.06
44	3850	11:27:39	60.00	46.90	848.68	23.65	2.27	0.06
45	3900	11:28:25	52.00	45.30	847.90	23.63	0.78	0.02
46	3960	11:29:18	60.00	50.21	837.12	23.33	10.78	0.30
47	4010	11:30:03	50.00	49.75	677.29	18.87	159.83	4.45
48	4020	11:30:51	10.00	47.74	51.84	1.44	625.45	17.43
49	4030	11:33:54	12.00	185.37	50.69	1.41	1.15	0.03
50	4050	11:37:30	20.00	214.95	46.45	1.29	4.24	0.12
51	4074	11:39:56	0.00	148.87	0.00	0.00	46.45	1.29

Company:

Well:

File: C:\ProgramData\Warrior\Data\saltydog-swd-4.db

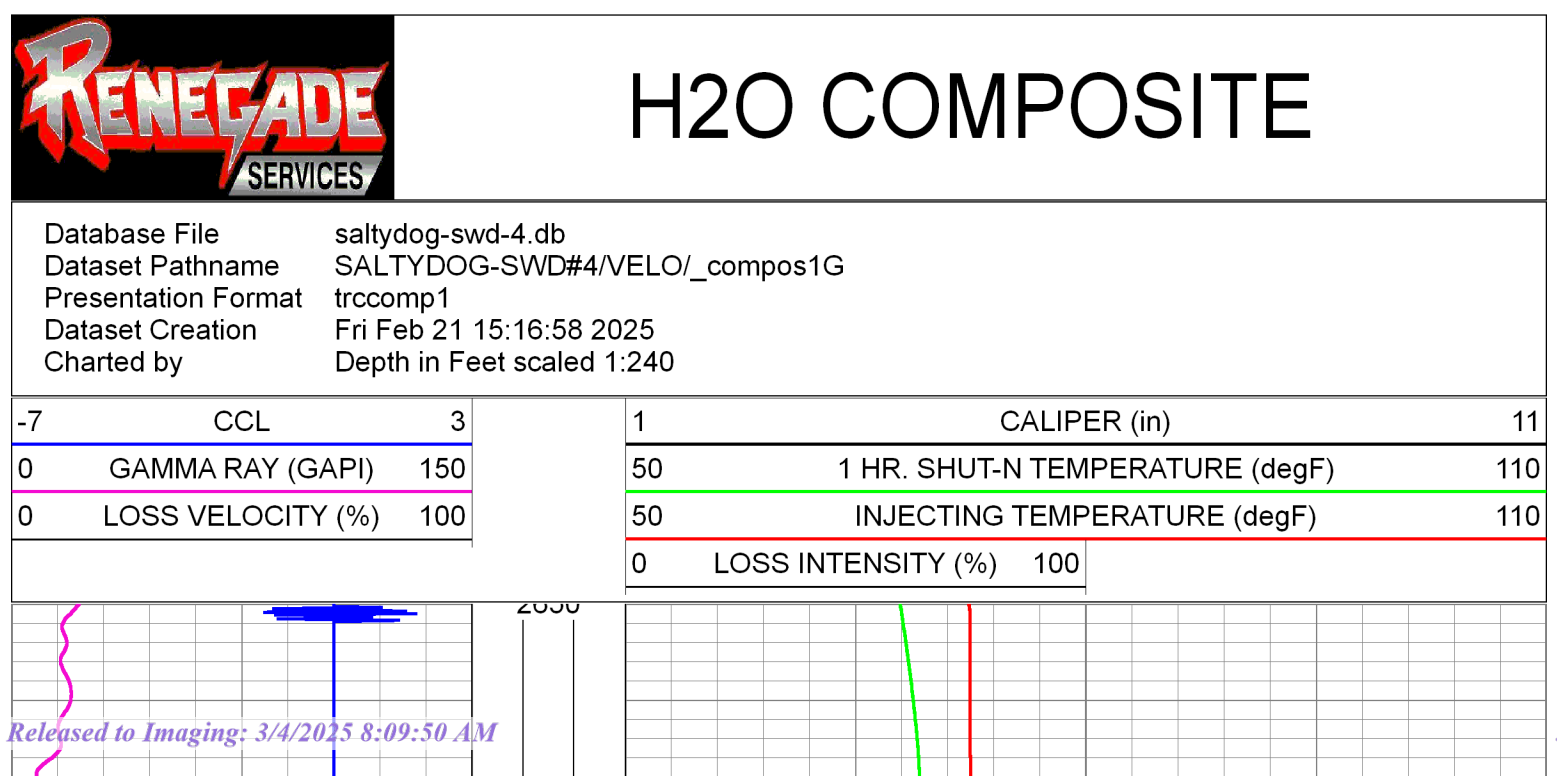
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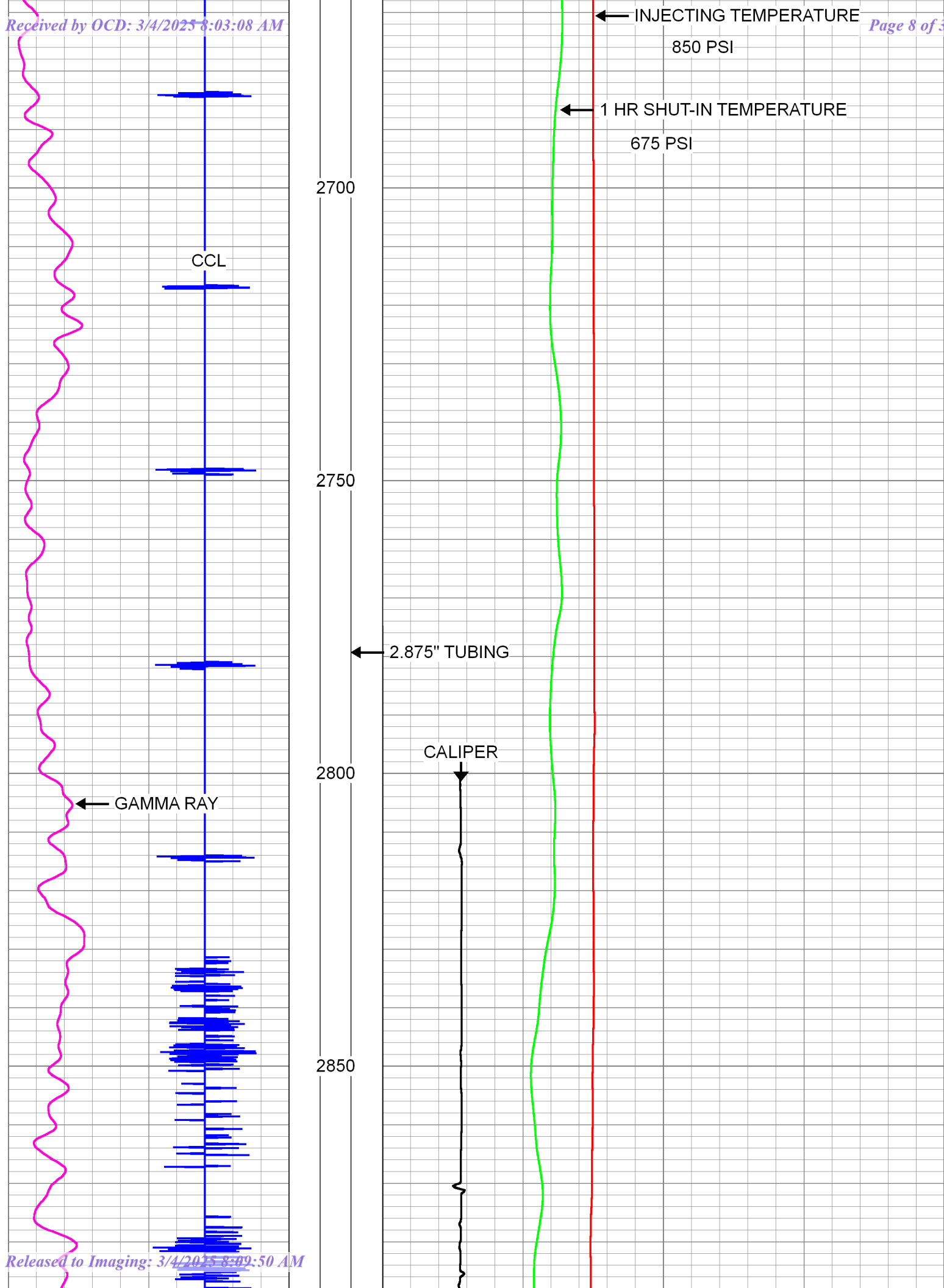
Reference Rate: 3573.3 b/d

## VELOCITY RESULTS

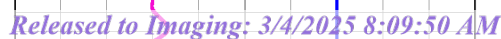
#	Depth (ft)	Time	D Space (ft)	D Time (sec)	Csg ID (in)	Flow (b/d)	Flow (%)	Delta (%)	Comm
44	2800.00	14:01:18	100.00	12.39	2.40	3588.83	100.00		DROP CE
42	2900.00	13:47:02	5.00	350.00	2.40				PACKER C
41	2930.00	13:39:20	5.70	2.27	4.95	3581.12	100.00	0.00	
43	2950.00	13:53:38	5.00	300.00	4.93				CHANNE
40	2950.00	13:38:07	5.70	2.25	4.93	3573.49	100.00	0.00	
39	2960.00	13:34:27	5.70	2.26	4.94	3573.34	100.00	0.00	
38	2970.00	13:30:51	5.70	6.49	4.92	1233.44	34.52	65.48	
37	2980.00	13:29:36	5.57	6.45	4.94	1223.50	34.24	0.28	
36	3000.00	13:28:18	5.70	5.39	4.50	1221.85	34.19	0.05	

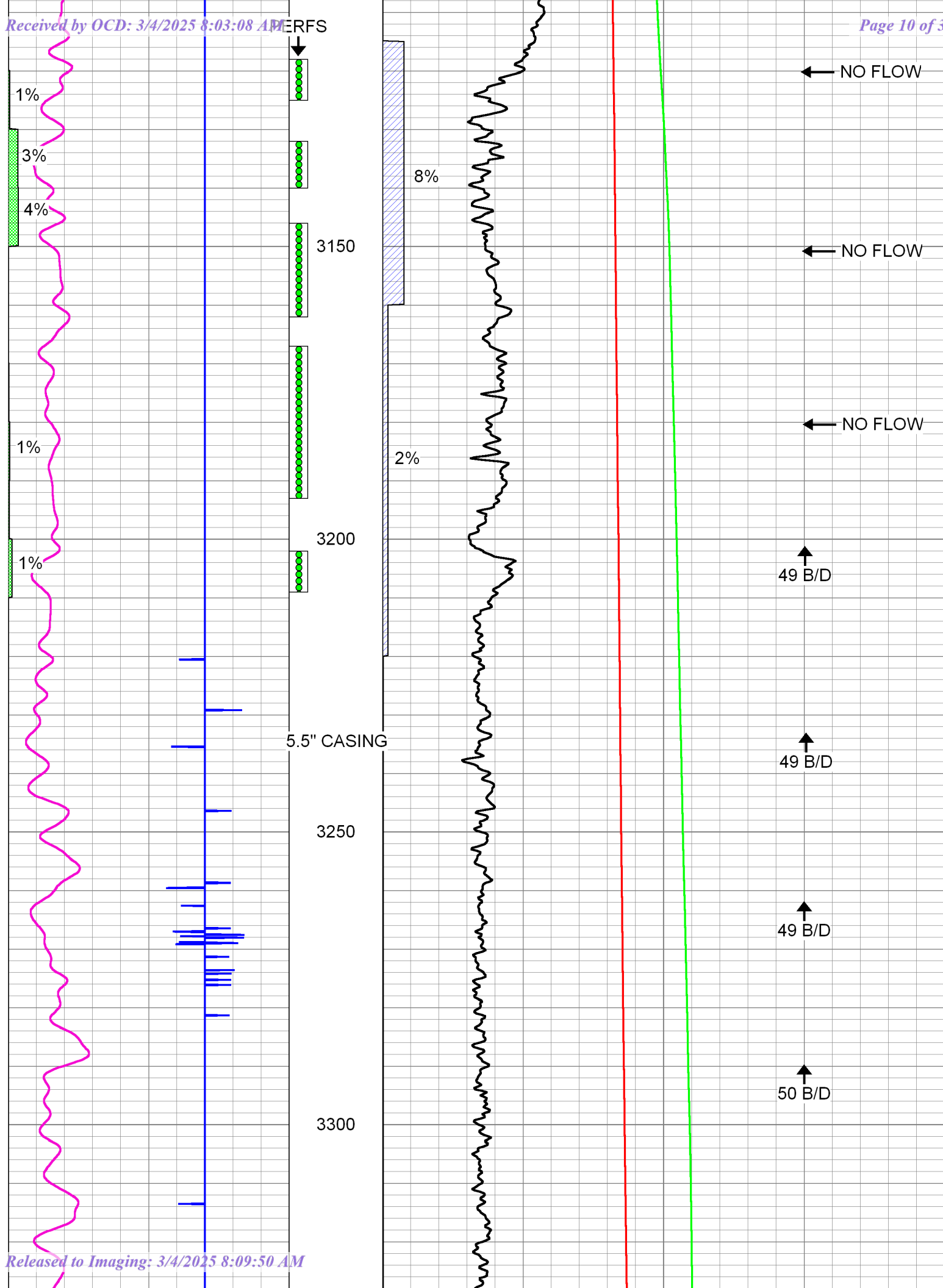
35	3020.00	13:27:17	5.70	6.25	4.81	1219.37	34.12	0.07	
34	3040.00	13:26:21	5.70	6.54	4.91	1218.62	34.10	0.02	
33	3080.00	13:25:14	5.70	3.41	3.67	1217.98	34.09	0.02	
32	3100.00	13:24:04	5.70	3.57	3.74	1215.51	34.02	0.07	
31	3120.00	13:22:42	5.70	3.06	3.50	1214.40	33.98	0.03	
30	3130.00	13:21:38	5.70	1.80	2.81	1196.81	33.49	0.49	
29	3140.00	13:20:33	5.70	1.80	2.70	1076.02	30.11	3.38	
28	3150.00	13:19:29	5.70	2.31	2.83	948.45	26.54	3.57	
27	3160.00	13:18:41	5.70	2.32	2.83	946.00	26.47	0.07	
26	3170.00	13:17:41	5.70	3.17	3.20	944.81	26.44	0.03	
25	3180.00	13:16:42	5.70	2.43	2.87	936.83	26.22	0.22	
24	3190.00	13:15:49	5.70	3.20	3.18	921.65	25.79	0.42	
23	3200.00	13:14:49	5.70	1.80	2.54	908.94	25.44	0.36	
22	3210.00	13:13:41	5.70	2.78	2.93	863.79	24.17	1.26	
21	3300.00	13:12:35	5.70	2.27	2.71	861.78	24.12	0.06	
20	3400.00	13:11:17	5.70	2.46	2.79	859.03	24.04	0.08	
19	3500.00	13:09:51	5.70	3.26	3.11	856.24	23.96	0.08	
18	3600.00	13:08:39	5.70	2.27	2.70	854.36	23.91	0.05	
17	3700.00	13:07:16	5.70	2.63	2.85	851.61	23.83	0.08	
16	3800.00	13:06:01	5.70	2.15	2.64	849.37	23.77	0.06	
15	3900.00	13:04:25	5.70	2.59	2.83	847.38	23.71	0.06	
14	3940.00	13:03:08	5.70	2.29	2.70	845.78	23.67	0.04	
13	3950.00	13:01:31	5.70	5.85	3.96	845.65	23.67	0.00	
12	3960.00	13:00:41	5.70	3.71	3.25	838.47	23.46	0.20	
11	3980.00	12:59:23	5.70	4.40	3.37	771.75	21.60	1.87	
10	3990.00	12:58:10	5.70	4.50	3.37	754.60	21.12	0.48	
9	4000.00	12:56:55	5.70	4.00	3.12	703.42	19.69	1.43	
8	4020.00	12:55:26	5.70	30.90	2.52	51.77	1.45	18.24	
7	4050.00	12:54:12	5.70	32.00	2.50	48.87	1.37	0.08	
1	4050.00	11:55:46	40.00	400.00	3.00				CHANNEL
6	4060.00	12:52:18	5.70	18.00	2.00	42.04	1.18	0.19	
5	4070.00	12:34:49	5.70	29.00	2.20	36.48	1.02	0.16	
4	4080.00	12:30:23	0.00	300.00	3.25	0.00	0.00	1.02	SLUC
3	4110.00	12:30:22	0.00	300.00	2.54	0.00	0.00	0.00	SLUC
2	4130.00	12:30:21	0.00	300.00	3.00	0.00	0.00	-0.00	SLUC

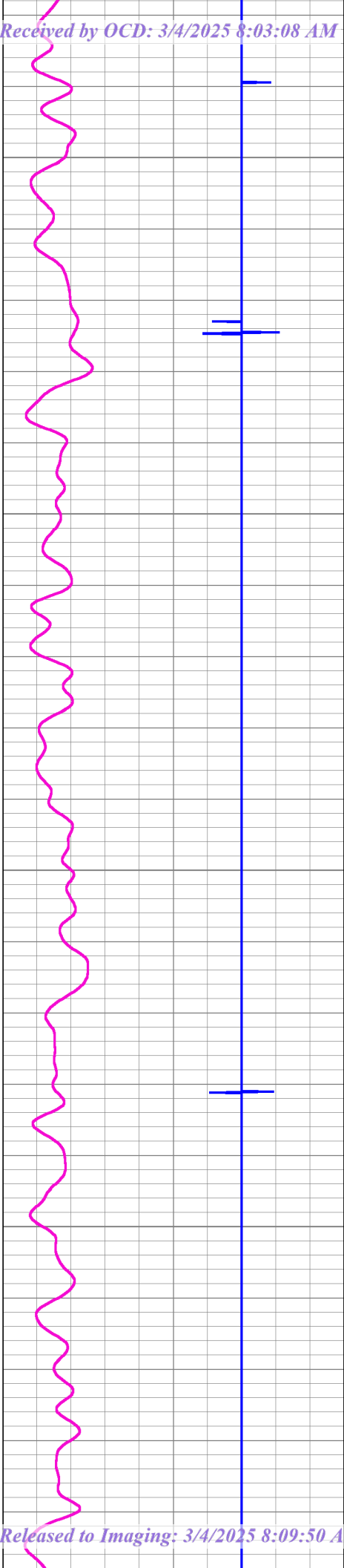










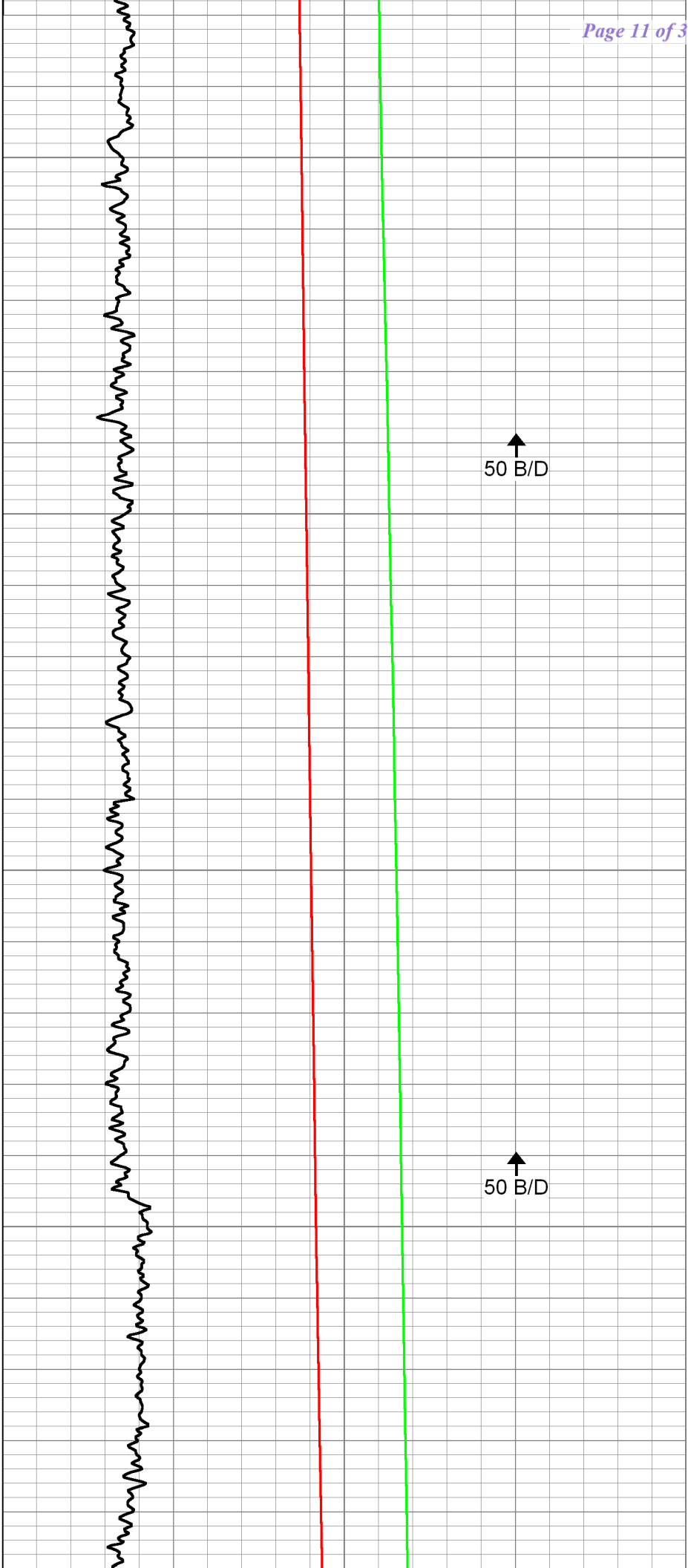


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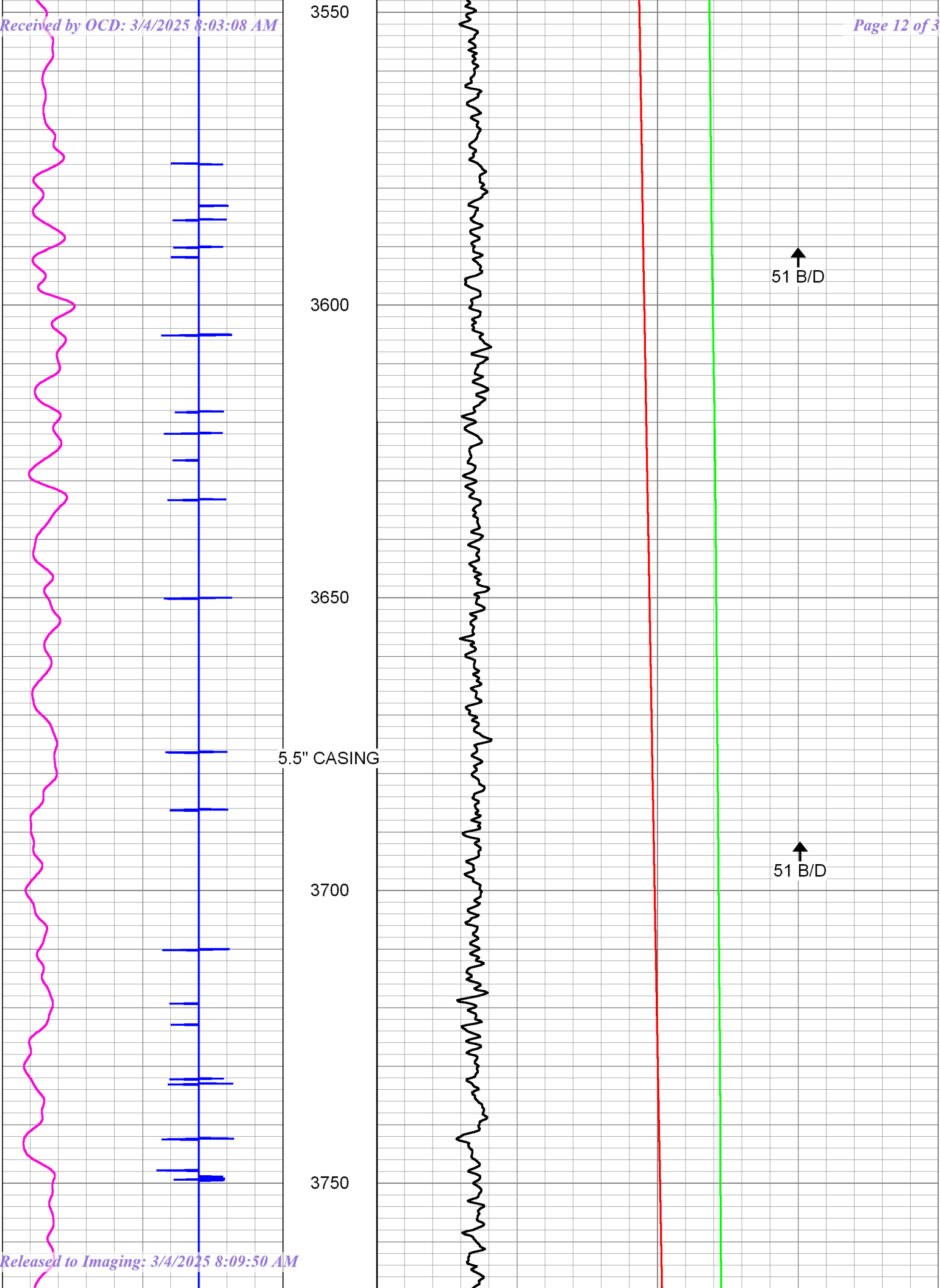
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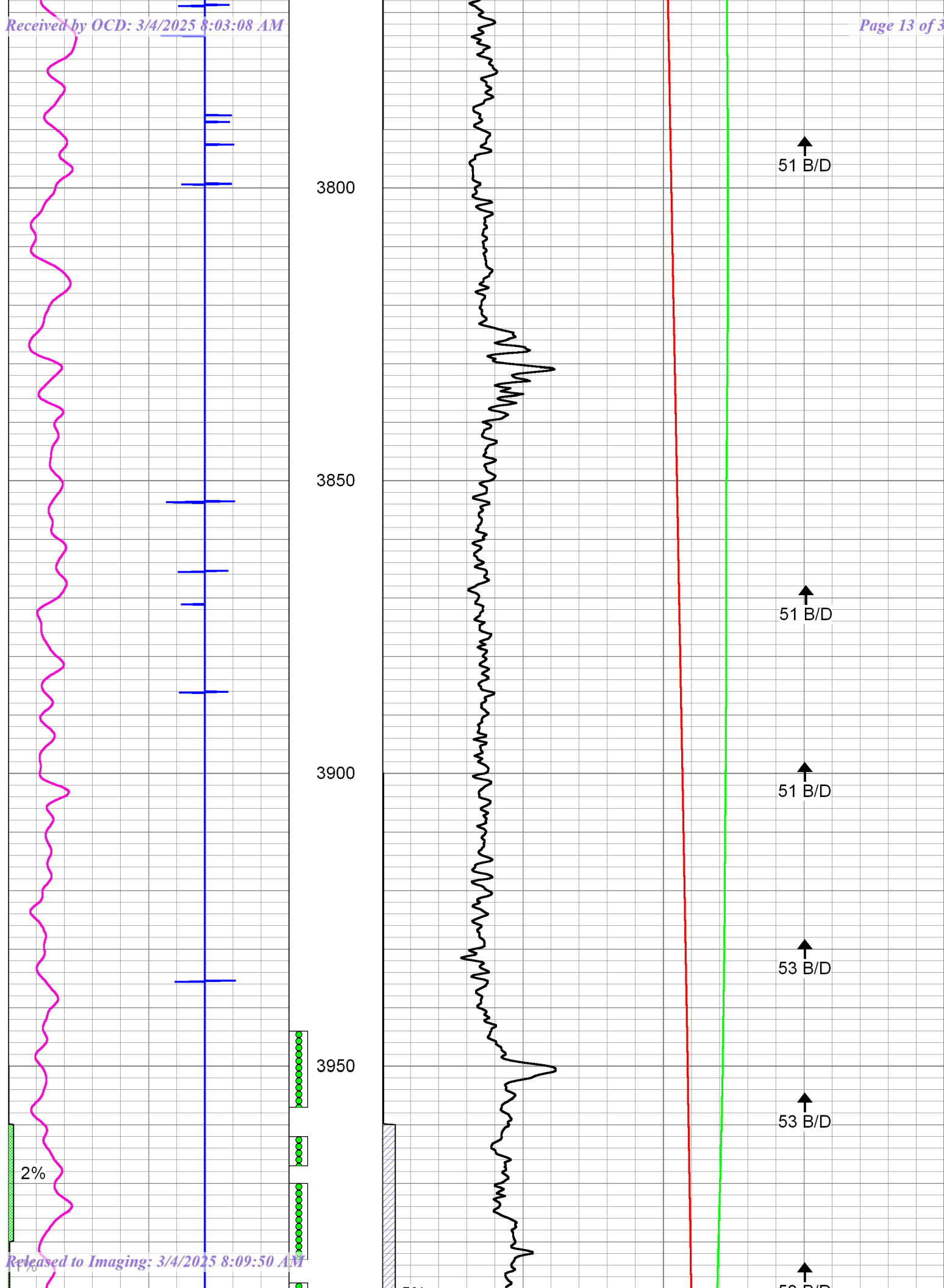
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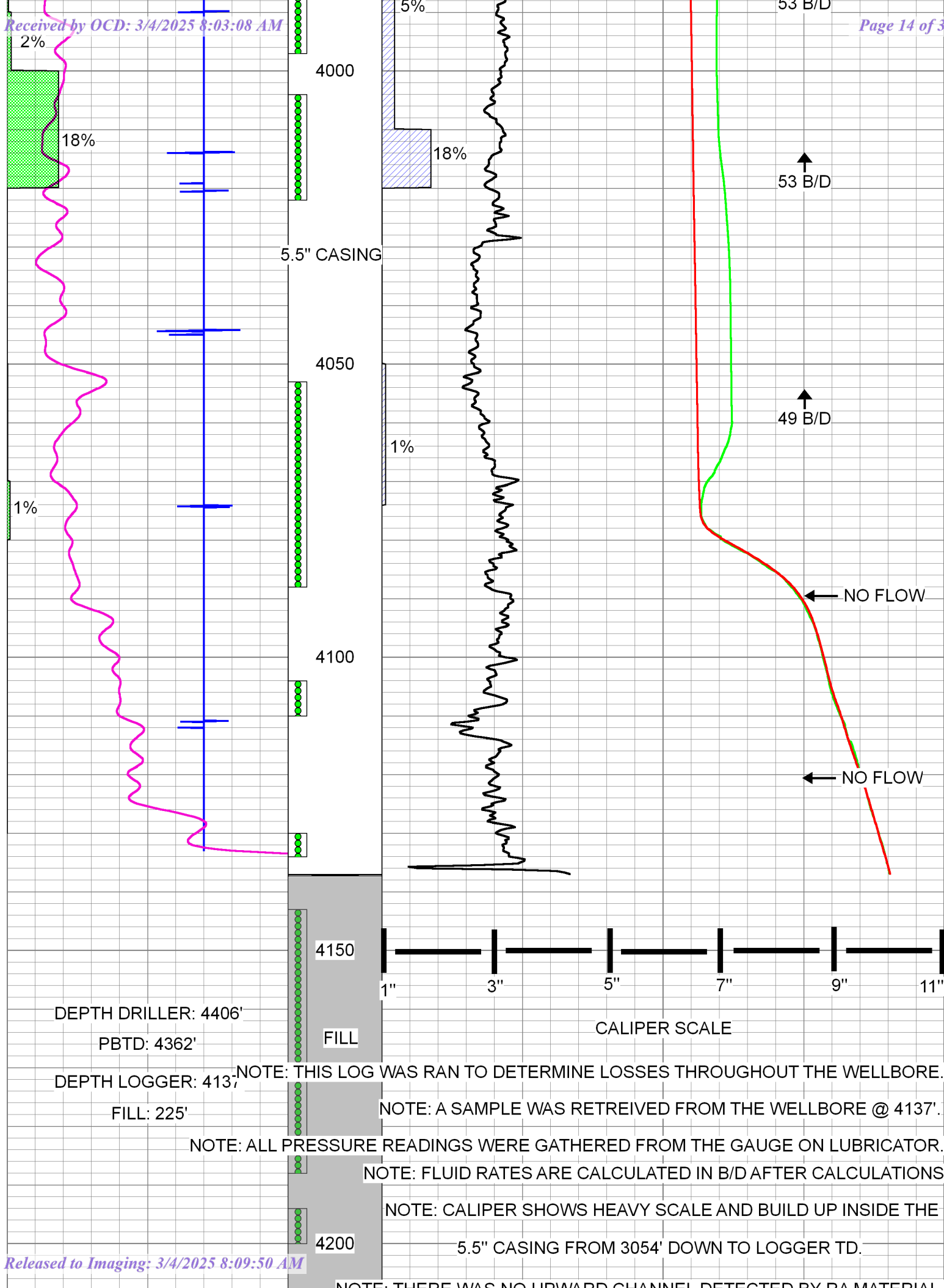


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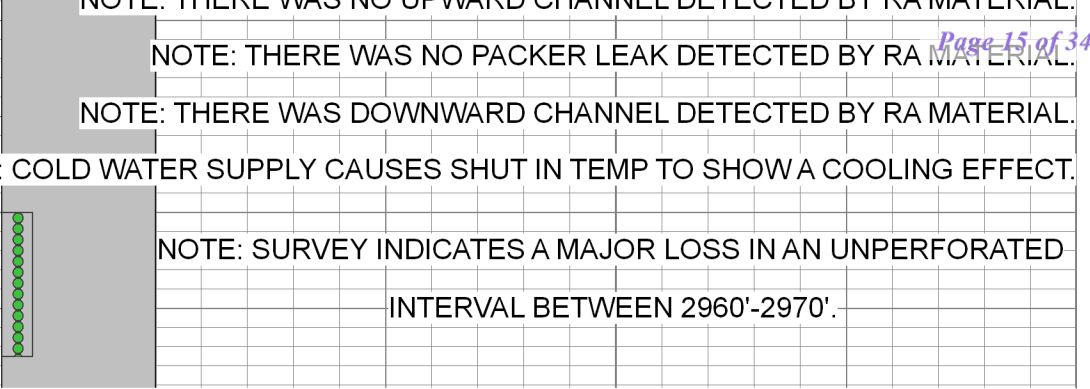
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NOTE: THE ZONE GIVING UP FLUID WAS TAKING ON INJECTION.

FLUID LOSS BREAK DOWN:

- 2960'-2970' = 66%
- 3115'-3150' = 8%
- 3151'-3209' = 2%
- 3960'-3999' = 5%
- 4000'-4020' = 18%
- 4070'-4080' = 1%

-7	CCL	3	1	CALIPER (in)	11
0	GAMMA RAY (GAPI)	150	50	1 HR. SHUT-N TEMPERATURE (degF)	110
0	LOSS VELOCITY (%)	100	50	INJECTING TEMPERATURE (degF)	110
			0	LOSS INTENSITY (%)	100



TRACER

Database File	saltydog-swd-4.db
Dataset Pathname	SALTYDOG-SWD#4/TRACER/_profile1_
Presentation Format	trcprof
Dataset Creation	Fri Feb 21 11:40:17 2025
Charted by	Depth in Feet scaled 1:240

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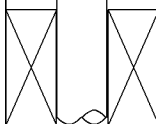
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2900



#2

11:16:42

3588 B/D

2950

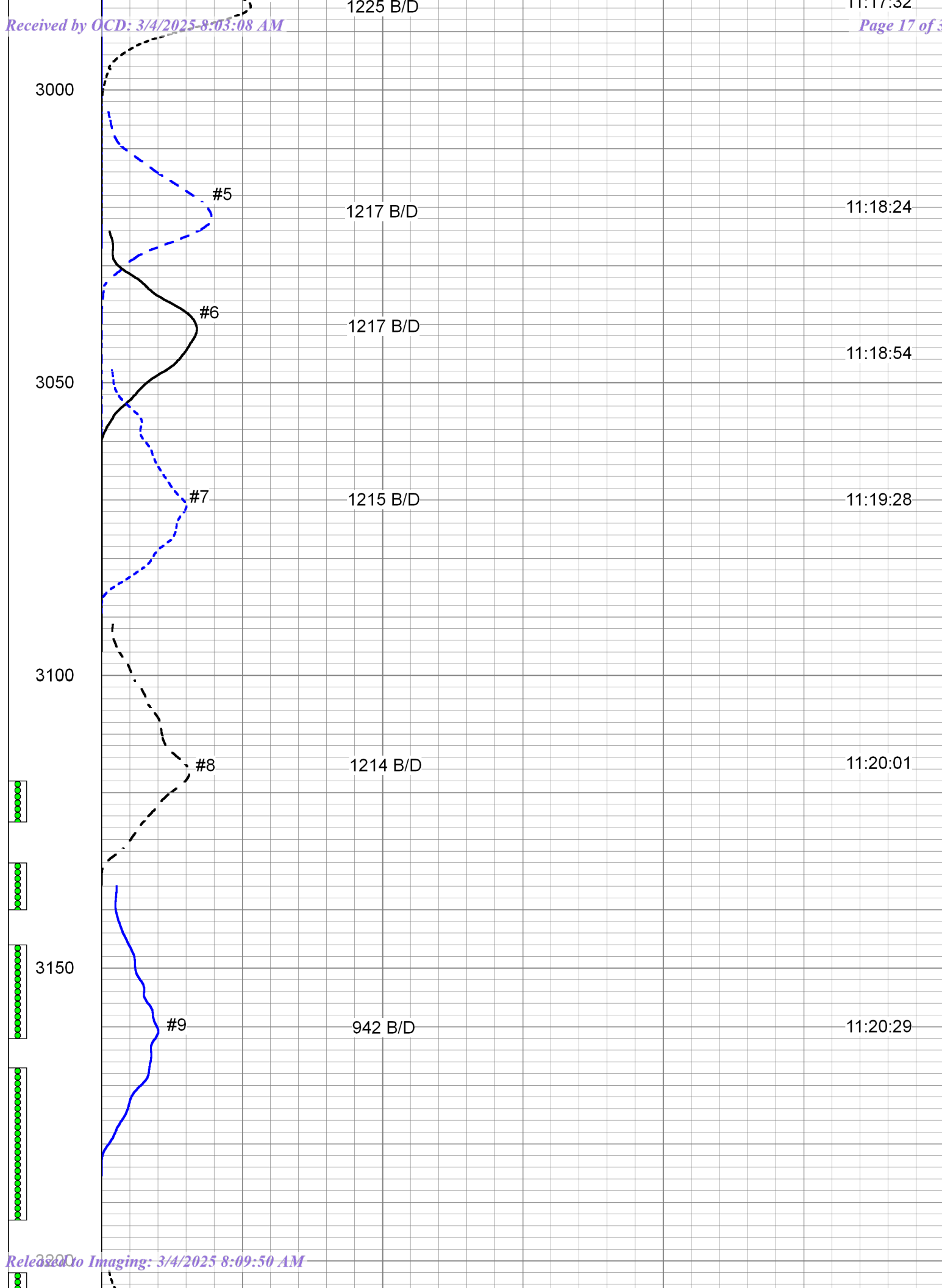
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#4

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#11

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866 B/D

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#14

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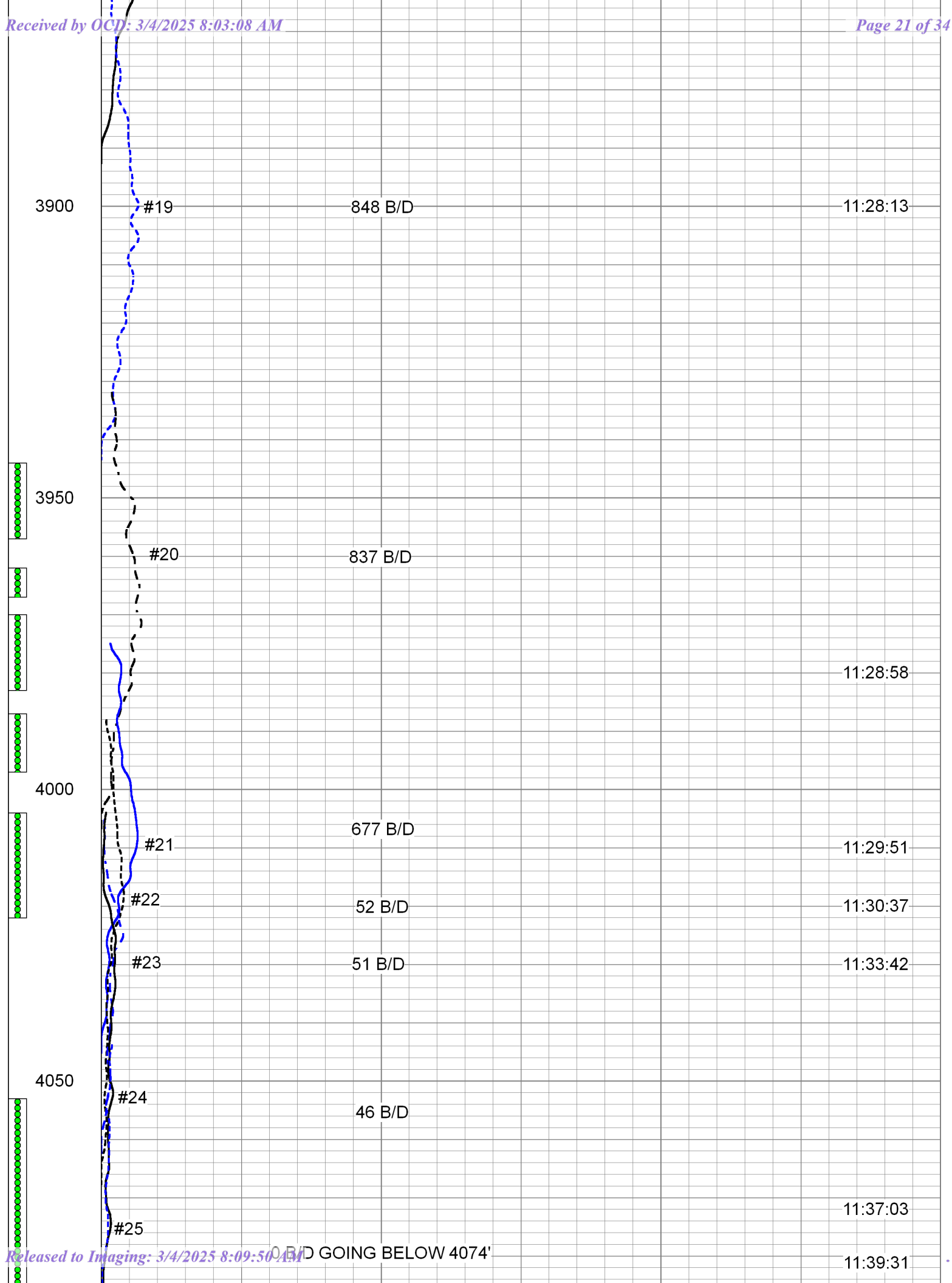
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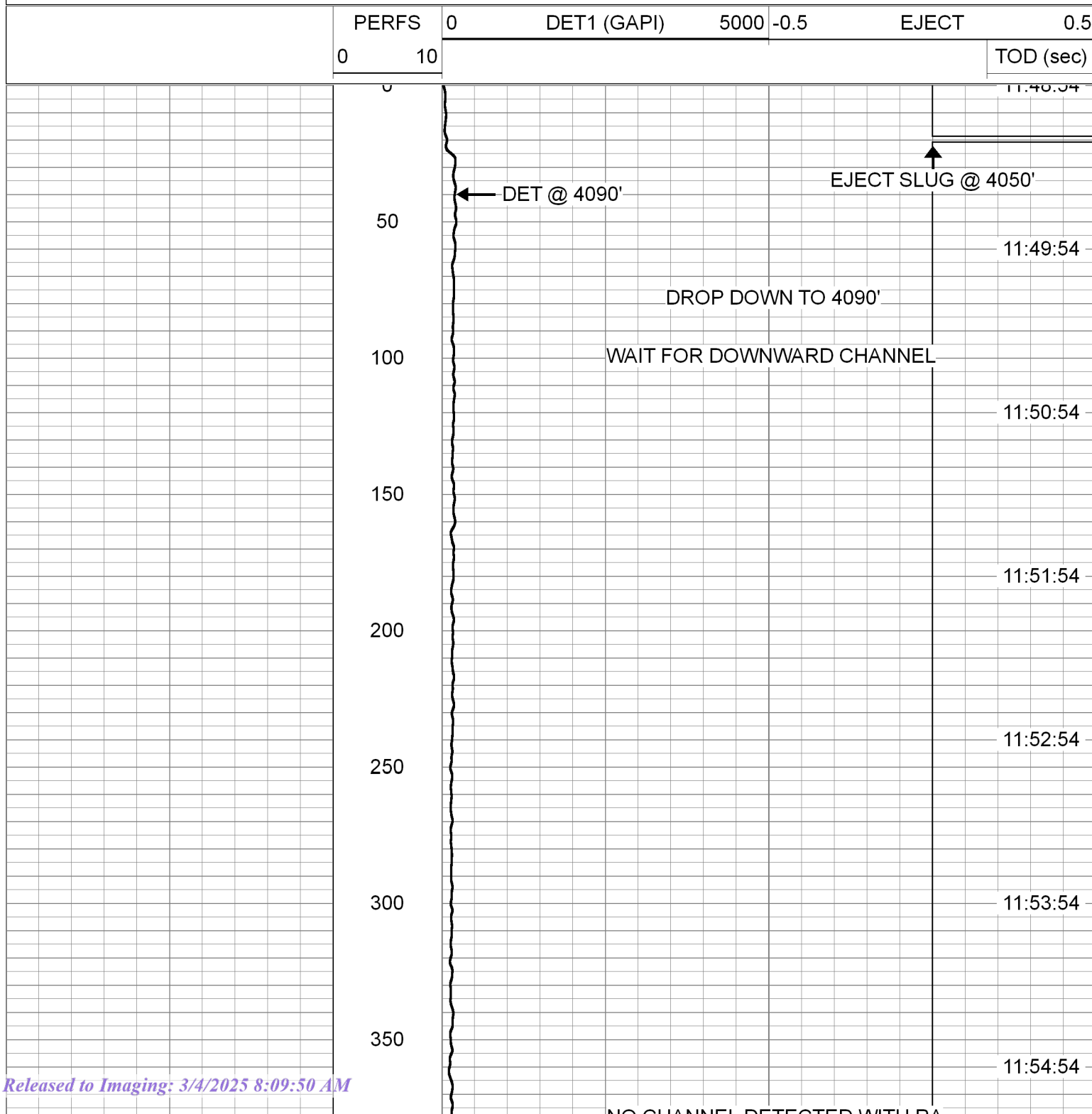
TRACER

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# CHANNEL DOWN CHECK

Database File saltydog-swd-4.db  
Dataset Pathname SALTYDOG-SWD#4/VELO/pass1  
Presentation Format tracer  
Dataset Creation Fri Feb 21 11:48:54 2025  
Charted by Time scaled 72/hour

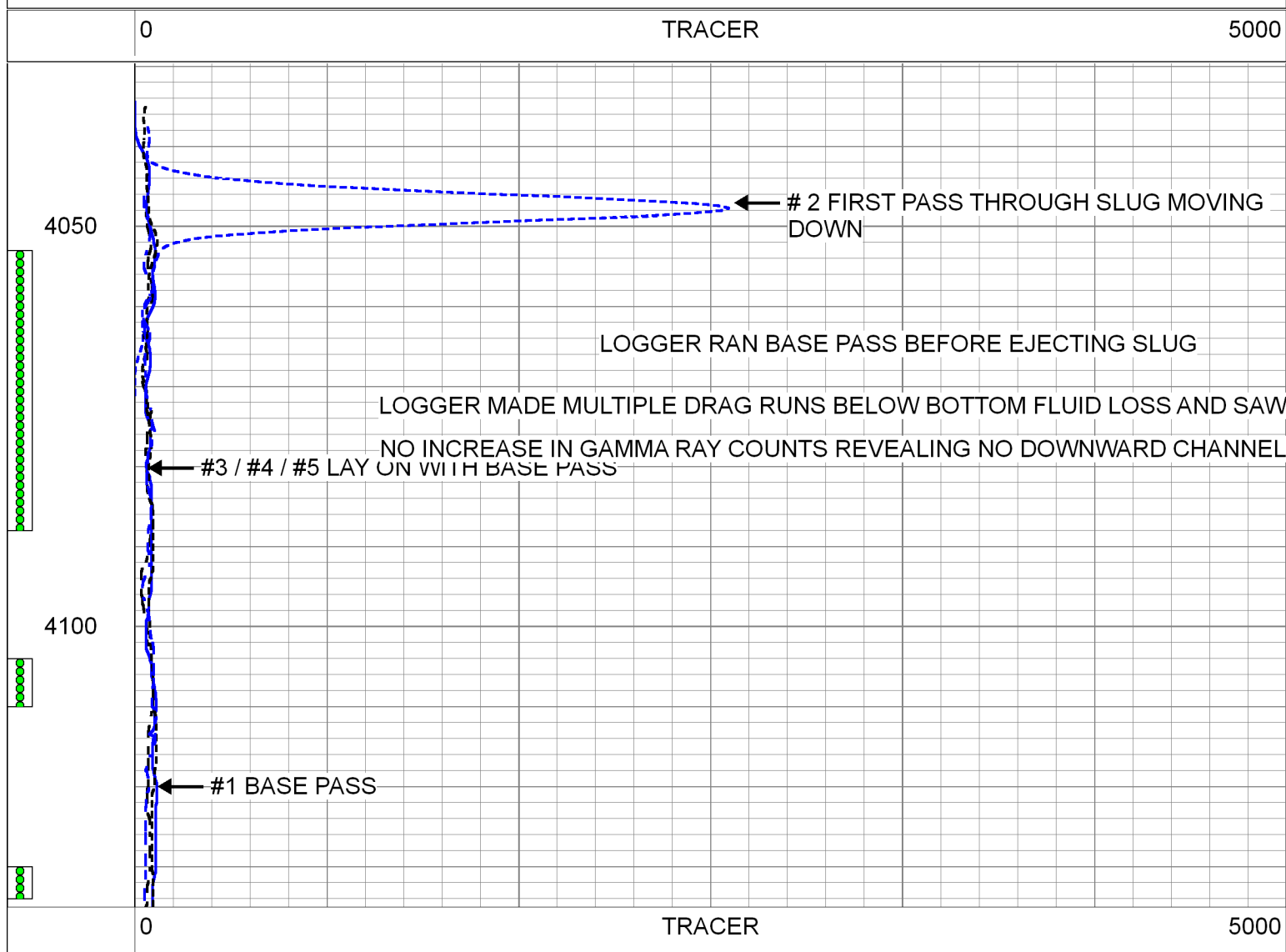


		NO CHANNEL DETECTED WITH RA	
	400		
PERFS	0	DET1 (GAPI)	5000 -0.5
0	10	EJECT	0.5
		TOD (sec)	

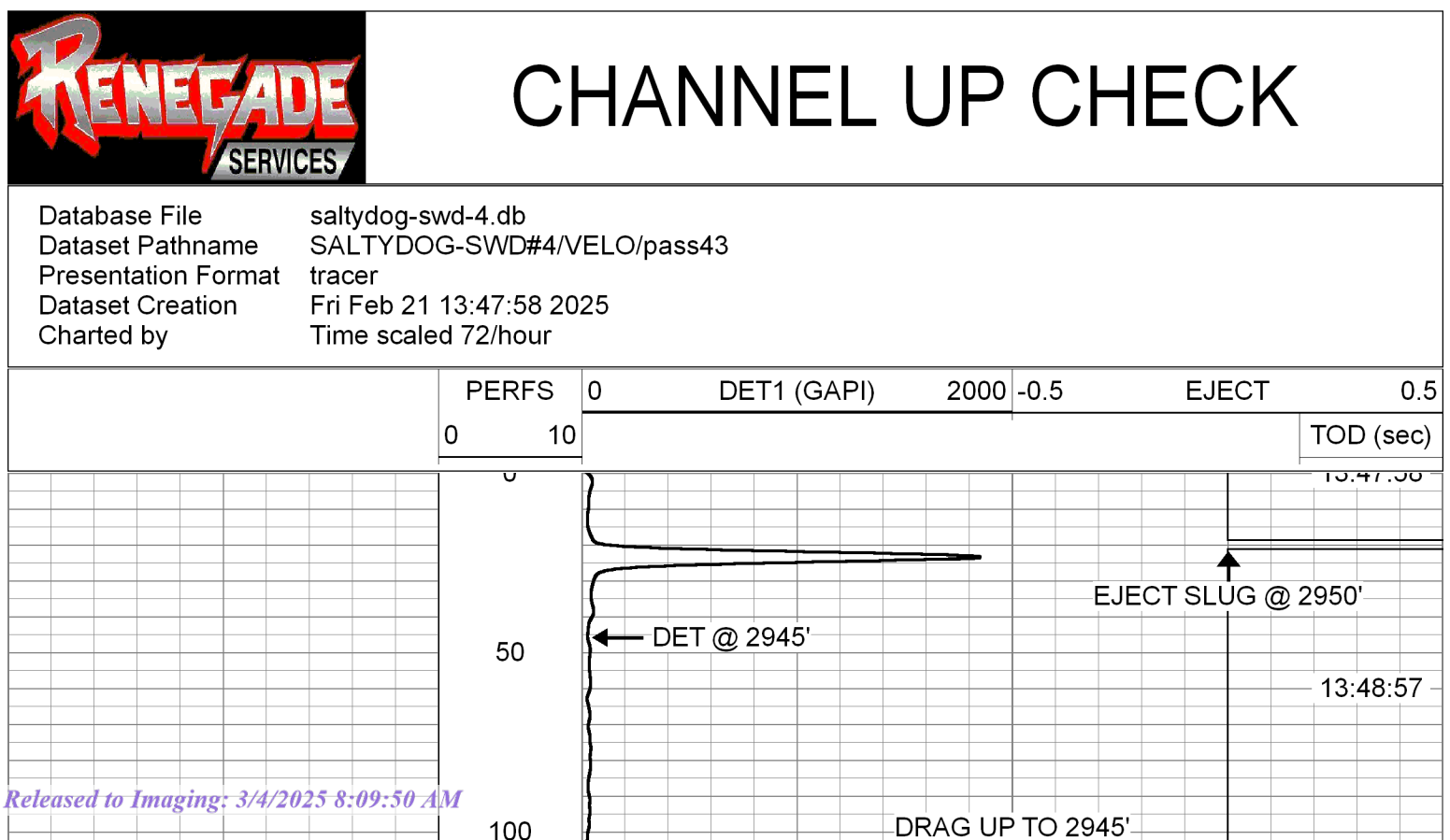
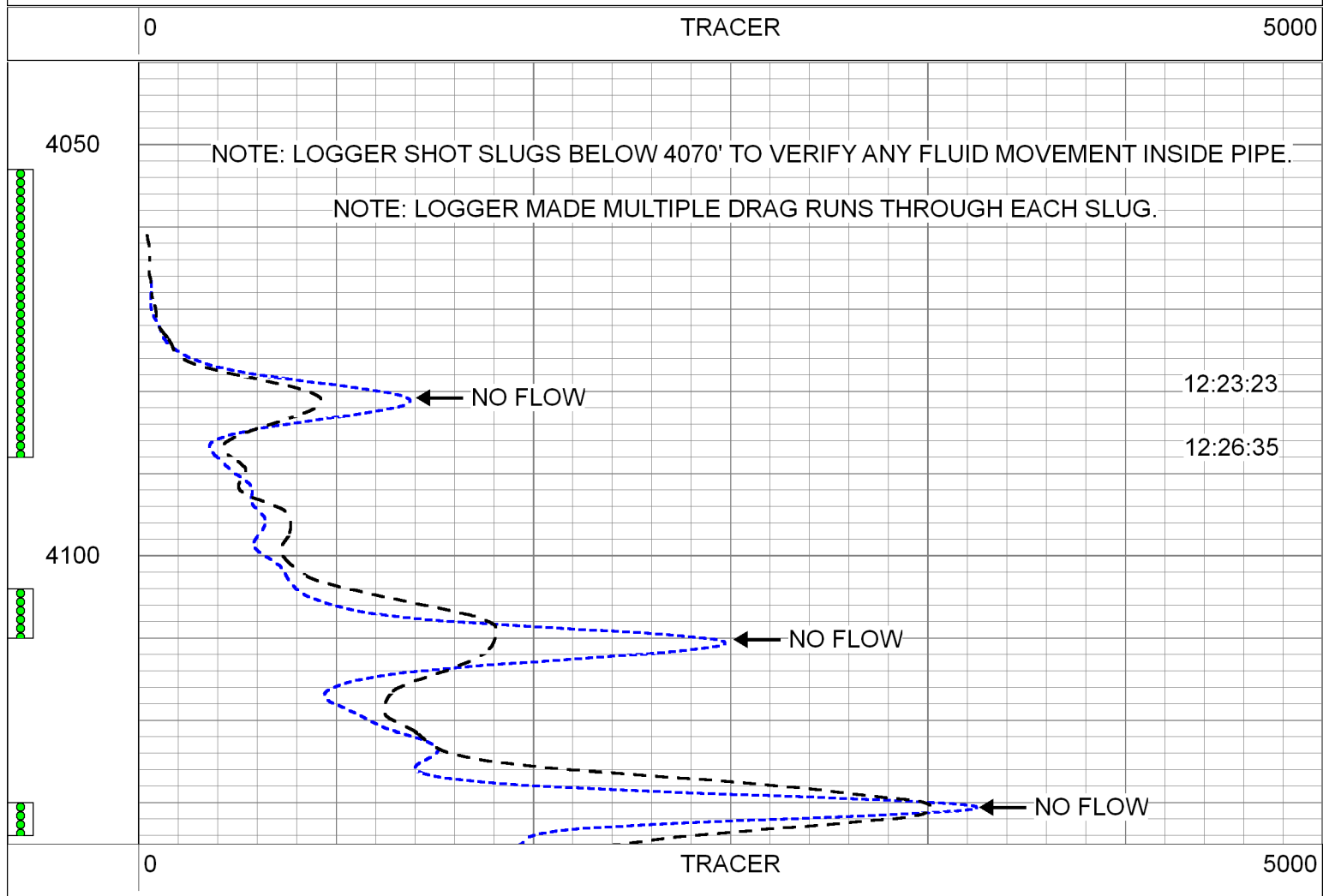


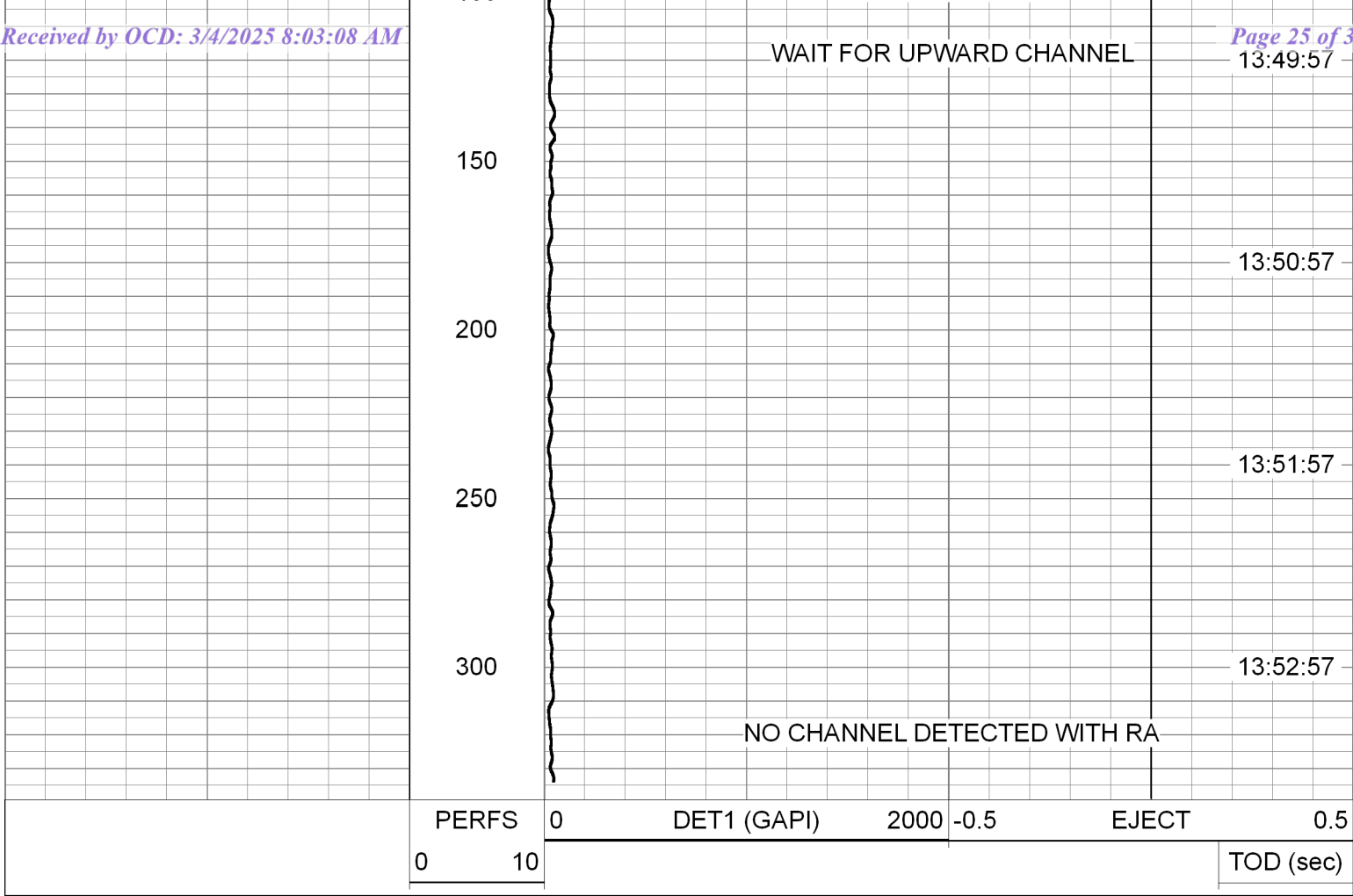
# CHANNEL DOWN CHECK

Database File saltydog-swd-4.db  
Dataset Pathname SALTYDOG-SWD#4/DRAGDOWN/\_profile1\_  
Presentation Format trcprof  
Dataset Creation Fri Feb 21 12:04:38 2025  
Charted by Depth in Feet scaled 1:240



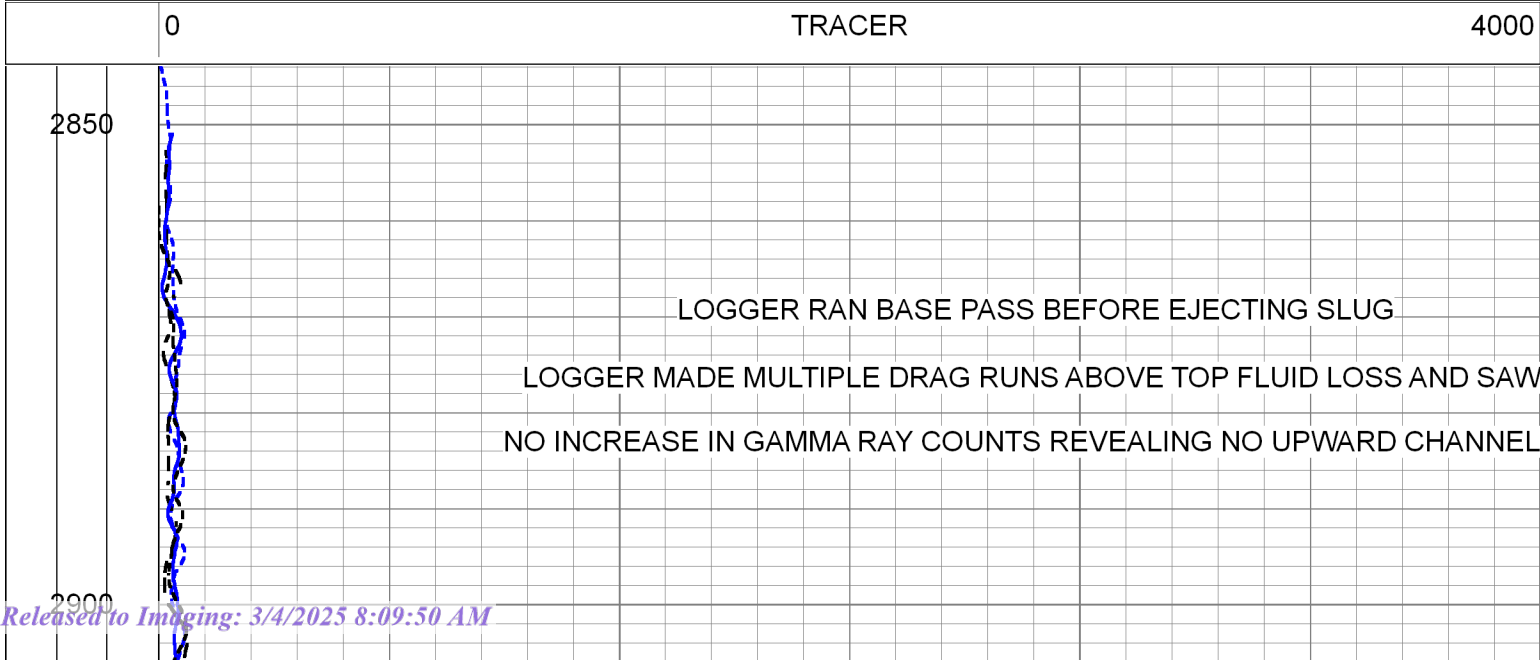
# NO FLOW SLUGS

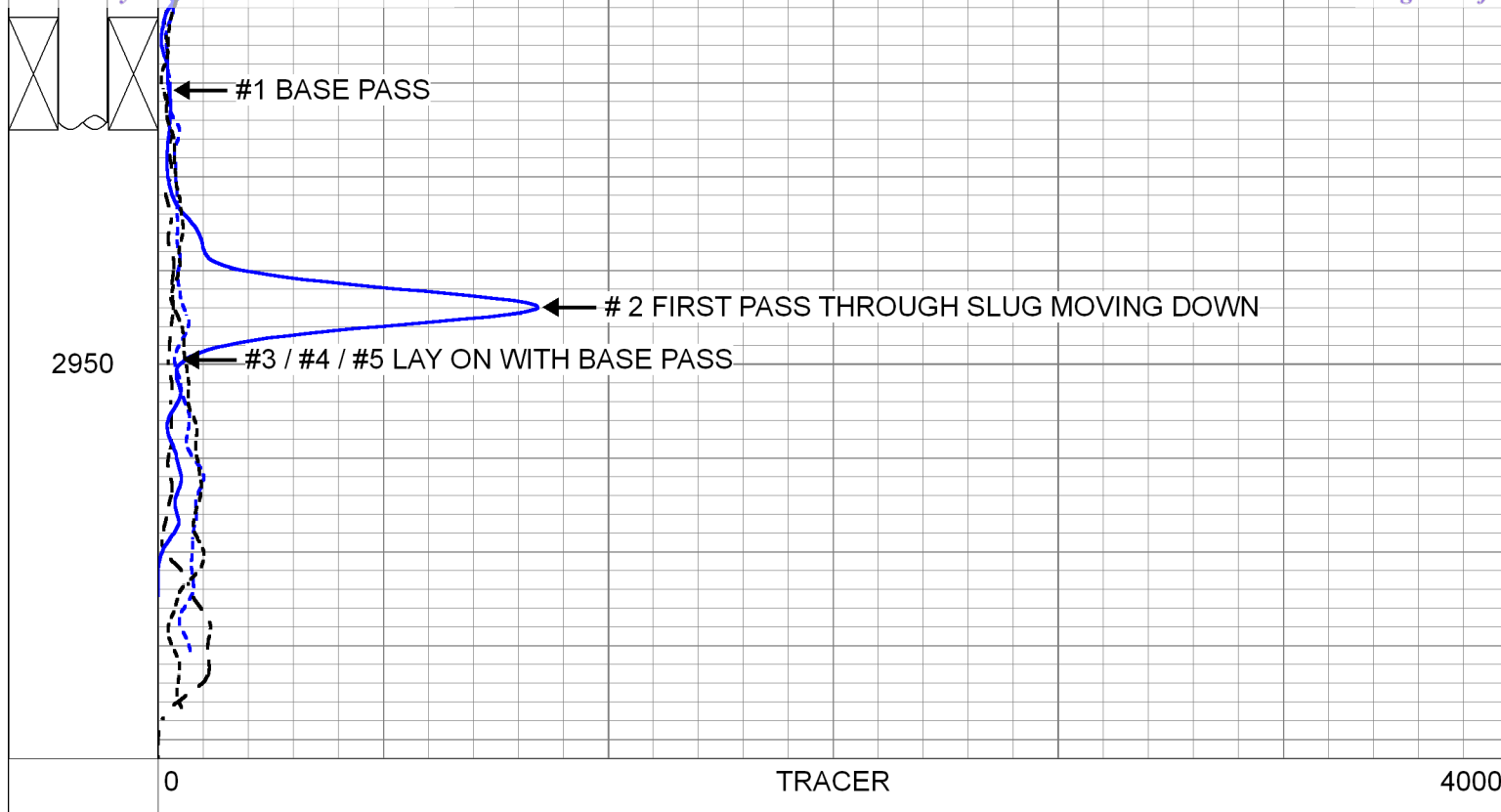




# CHANNEL UP CHECK

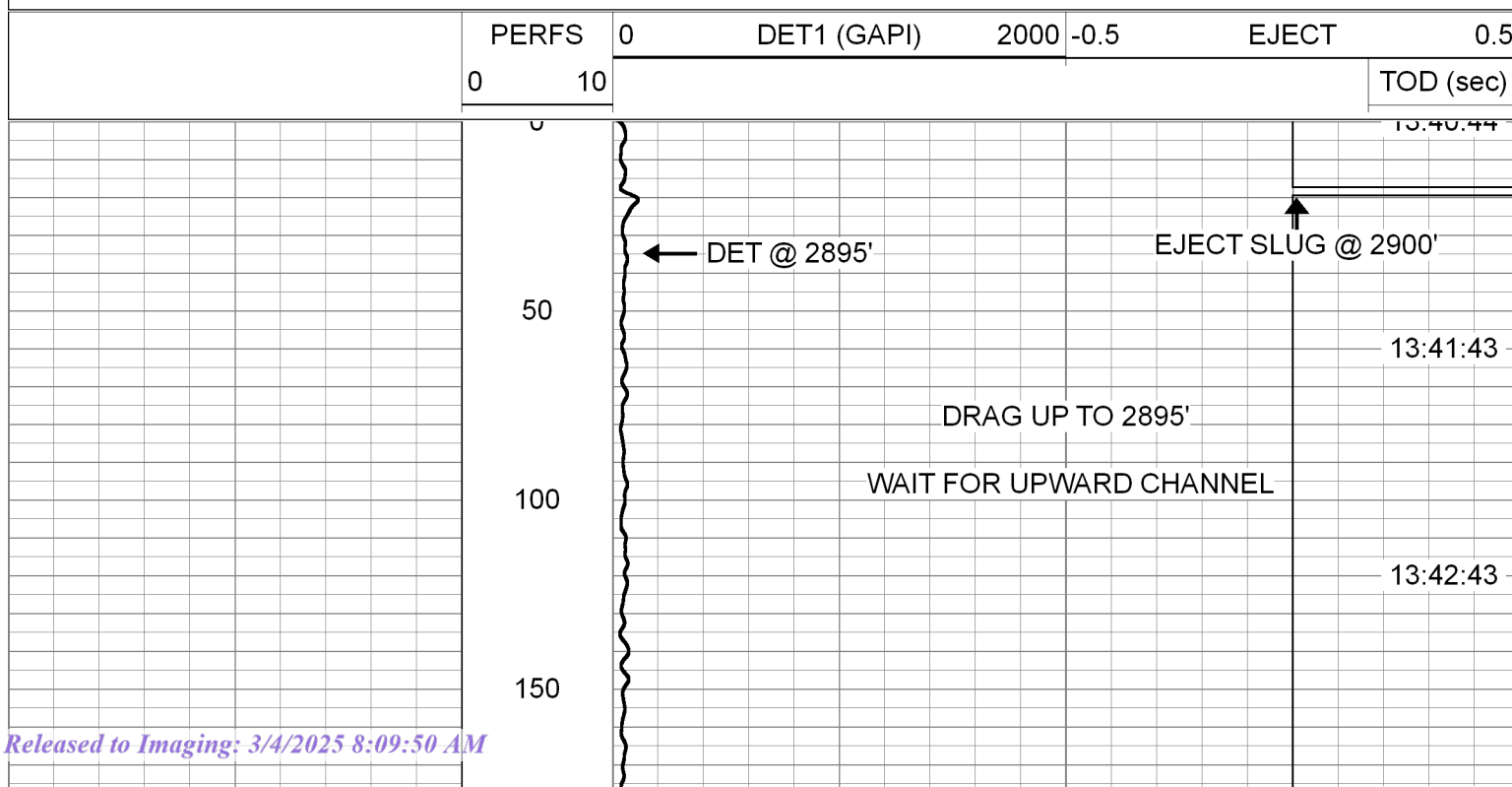
Database File	saltydog-swd-4.db
Dataset Pathname	SALTYDOG-SWD#4/DRAGUP/_profile1_
Presentation Format	trcprof
Dataset Creation	Fri Feb 21 13:59:01 2025
Charted by	Depth in Feet scaled 1:240



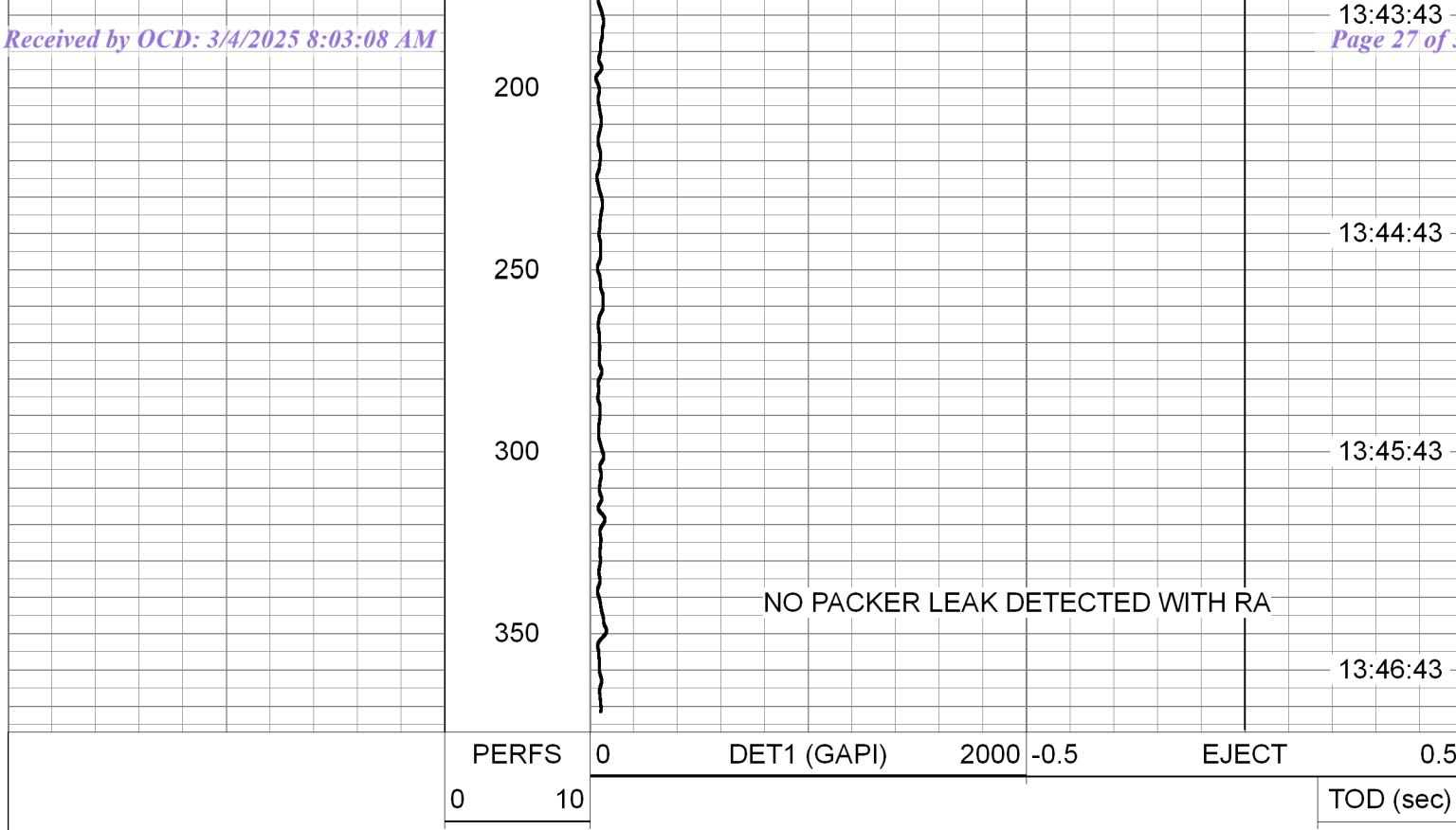


# PACKER CHECK

Database File saltydog-swd-4.db  
Dataset Pathname SALTYDOG-SWD#4/VELO/pass42  
Presentation Format tracer  
Dataset Creation Fri Feb 21 13:40:44 2025  
Charted by Time scaled 72/hour

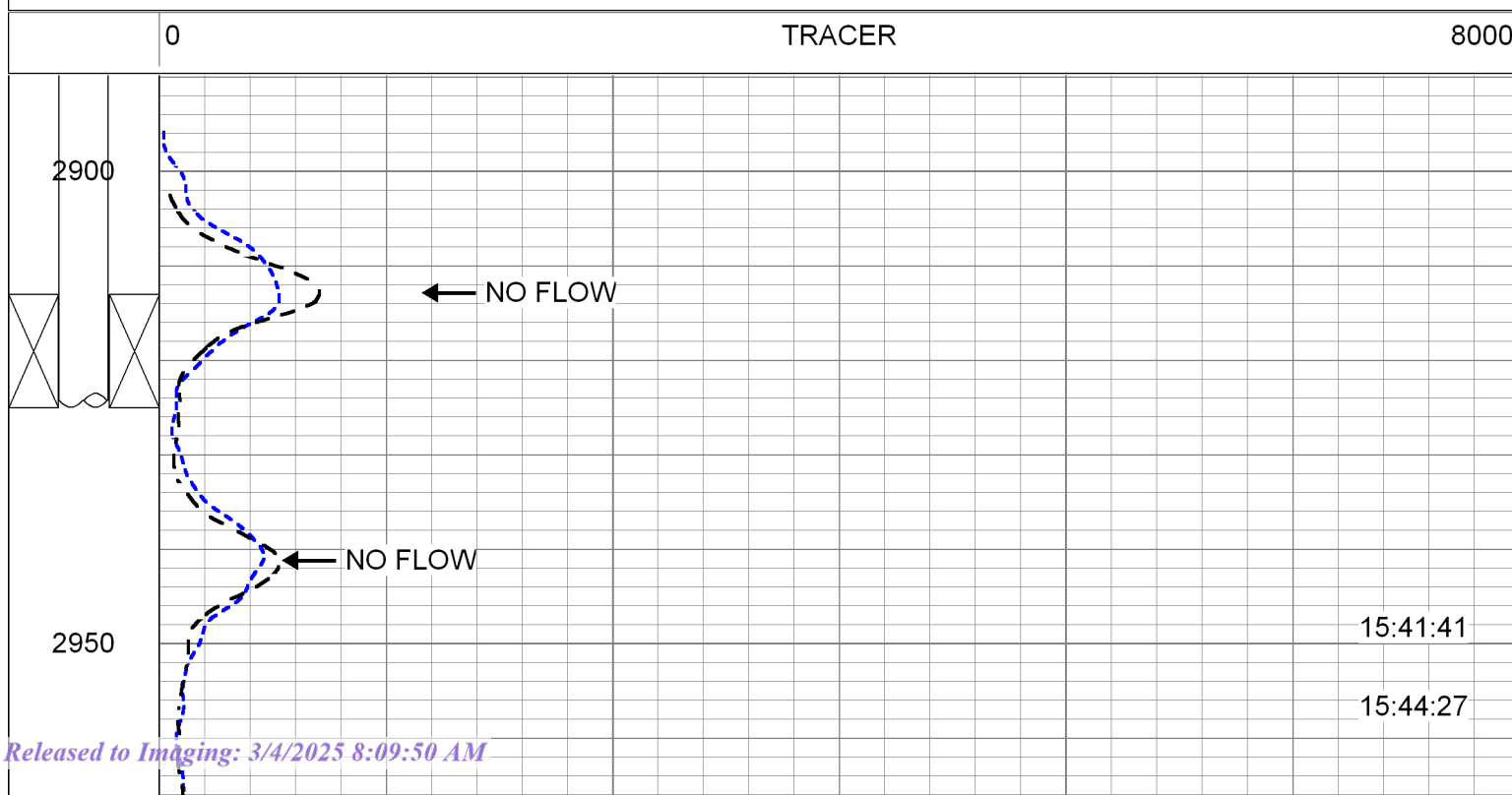


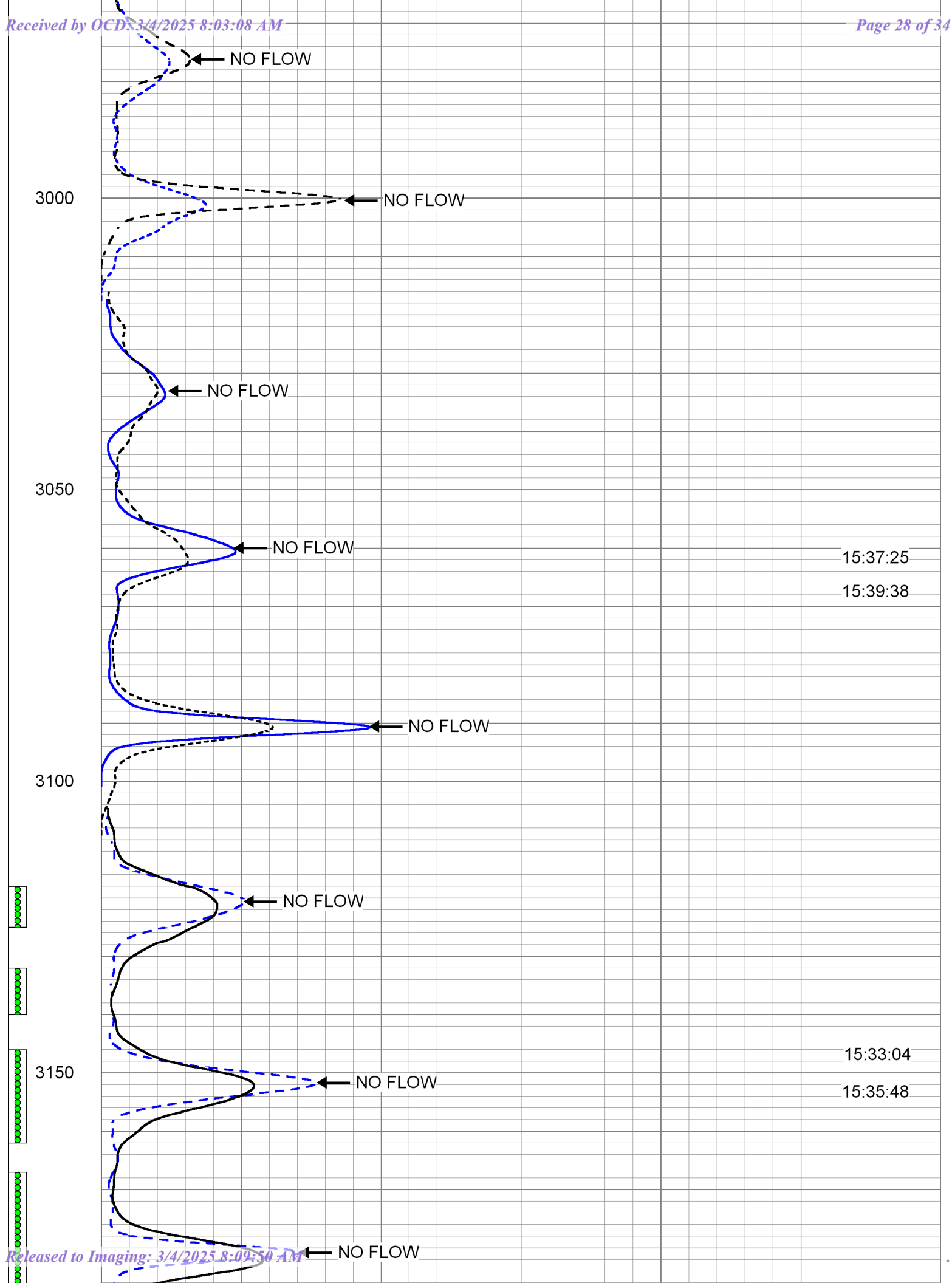


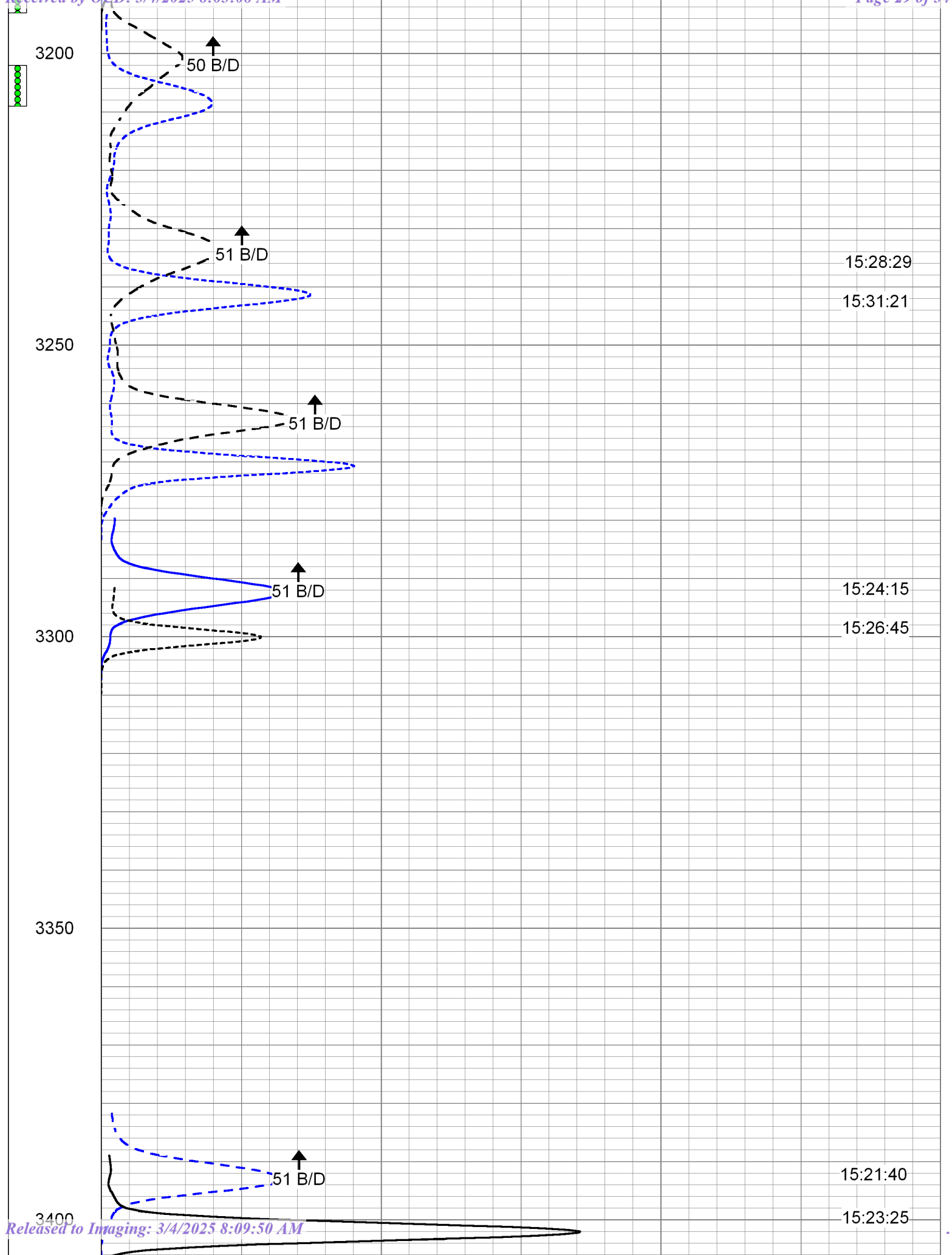


# 1HR SHUT IN X-FLOWS

Database File saltydog-swd-4.db  
Dataset Pathname SALTYSOG-SWD#4/XFLOWS/\_profile1\_  
Presentation Format trcprof  
Dataset Creation Fri Feb 21 15:44:58 2025  
Charted by Depth in Feet scaled 1:240







3450

3500

3550

3600

15:19:21

15:20:50

15:16:01

15:18:40

51 B/D

51 B/D

3650

3700

3750

3800

15:13:58

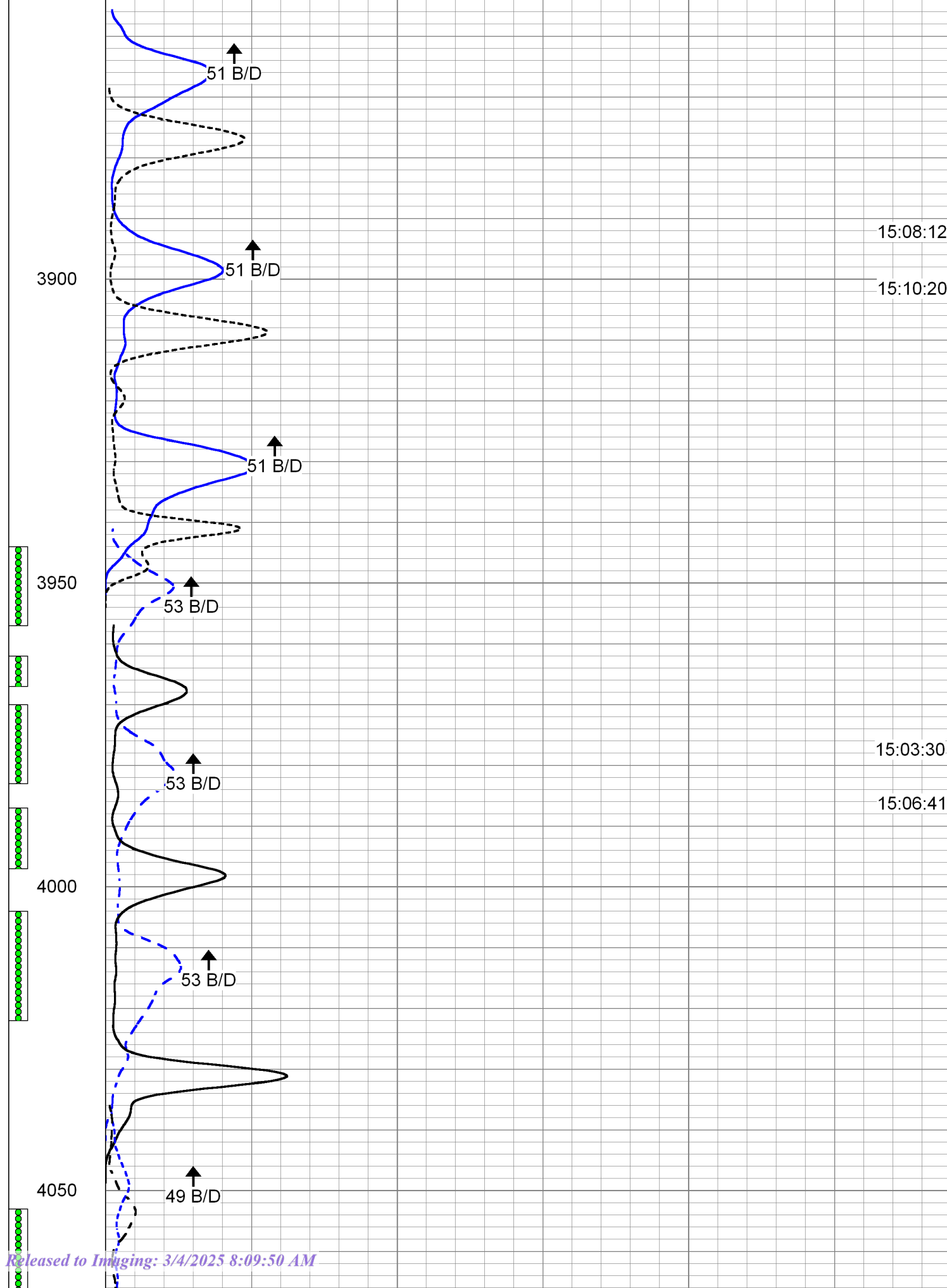
15:15:20

15:11:01

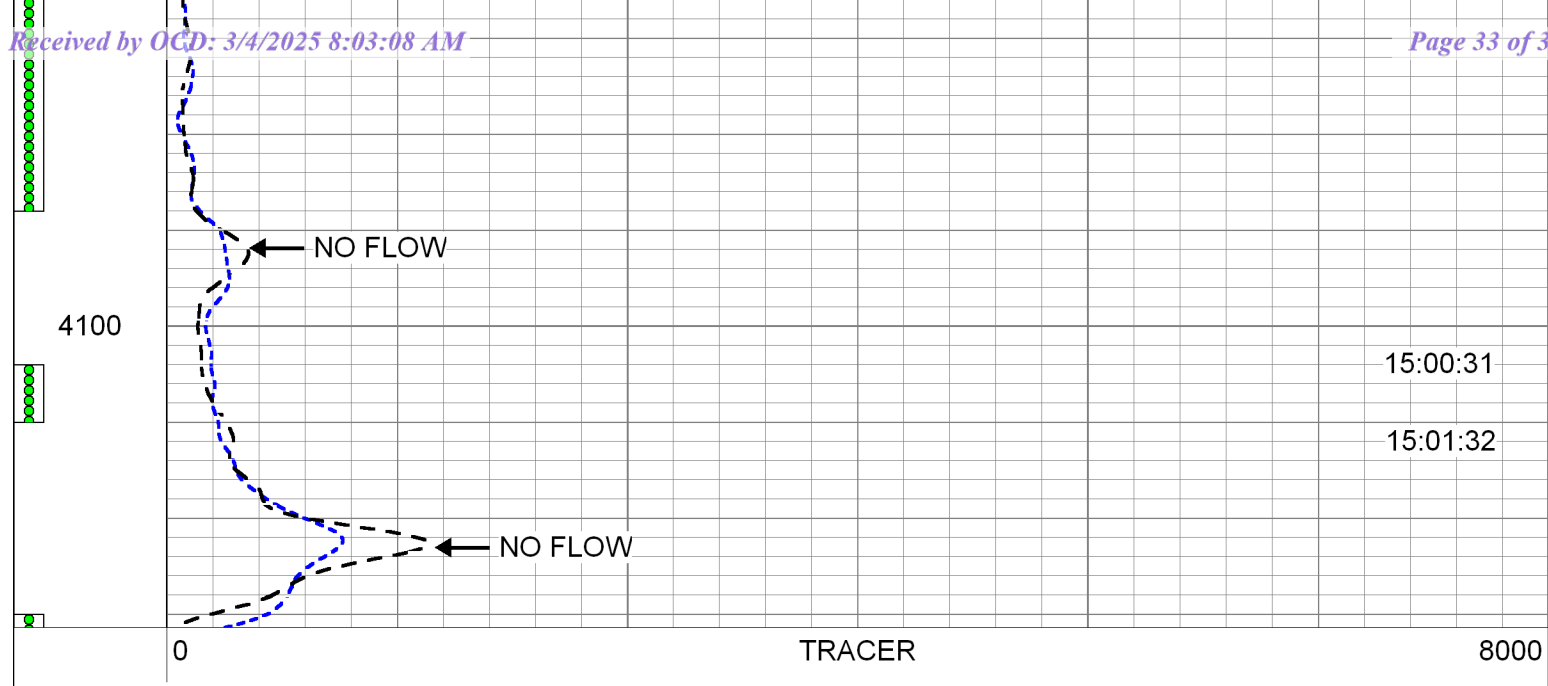
15:13:22

51 B/D  
↑

51 B/D  
↑







	Company	HILCORP ENERGY		
	Well	SALTY DOG SWD #4		
	Field	SAN JUAN BASIN		
	County	SAN JUAN		
	State	NEW MEXICO		Country USA

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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 438565

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 438565
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	3/4/2025