

| | | |
|-----------------------------------|--|--|
| Well Name: ROSA UNIT | Well Location: T31N / R5W / SEC 33 / NESE / 36.85388 / -107.36125 | County or Parish/State: RIO ARRIBA / NM |
| Well Number: 77A | Type of Well: CONVENTIONAL GAS WELL | Allottee or Tribe Name: |
| Lease Number: NMSF078773 | Unit or CA Name: ROSA UNIT--DK, ROSA UNIT--MV | Unit or CA Number: NMNM78407A, NMNM78407B |
| US Well Number: 3003925515 | Operator: LOGOS OPERATING LLC | |

Subsequent Report

Sundry ID: 2796061

Type of Submission: Subsequent Report

Type of Action: Workover Operations

Date Sundry Submitted: 06/24/2024

Time Sundry Submitted: 09:31

Date Operation Actually Began: 05/06/2024

Actual Procedure: 5/6/2024 - MIRU, ND WH, NU & test BOP. Good test. LD 1-1/4" short string. Working 1-1/2" tbg long string & seal assembly. Fail to pull up out of packer, SDFN, 5/7/2024 - RU WL, TIH & chemical cut 1-1/2" tbg @ 6102'. Pkr @ 6108'. RD WL, LD cut tbg. Pick up overshot, jar, pull up tbg to 5500'. SIW, SDFN, 5/8 - 5/14/2024 - TIH w/overshot & tag @ 6090'. Break circ. CO to top of 1-1/2" tbg, latch on, jar tbg free, LD parted tbg. TIH w/4-1/2" mill, to packer @ 6108'. Break circulation, mill packer to 6110', jar on packer could not latch on. TOO. TIH w/3-1/2" grapple, jar packer free. Stuck tail pipe below pkr. PU hole to free tbg. Spot 1000gals/15% acid. Pull overshot above perfs. SIW, SDFN, 5/15 - 5/24/2024 - Trip in overshot to 6116', jar on packer. TOO. Replace grapple w/3-7/16". TIH. Circulate. Latch on & TOO w/packer. TIH w/mill to top of 1-1/2" tbg f/6116' t/6120'. Trip in overshot. RU WL, chemical cut tubing @ 7063'. LD 29jts. Trip overshot to TOF @ 7067'. Jar on fish. TOO. TIH w/external cutter TOF @ 7067', wash over tbg. TOO. TIH w/2nd cutter, cut tbg @ 7304'. LD 7jts. MU overshot w/2-1/16" grapple, engage fish @ 7304'. RU WL. String shot tag @ 7655'. PU collar @ 7636'. POOH, RD WL, LD 10jts of 1-1/2" tbg. TOF @ 7636'. RU swivel break circ. Rotate over fish to 7877'. LD 7jts. RU WL, Run Gyro, RD WL, Wash over fish. Tag sand @ 8004'. CO to 8055'. Pump sweeps while working stuck pipe, could not pull free. SIW, SDFN, 5/25/2024 - Break circulation & work pipe. RU WL string shot to 7658'. RD WL, TOO. TOF @ 7658'. SIW, SDFW. Received verbal approval from Monica Kuehling (OCD) & Virgil Lucero (BLM) to leave fish in the well (see attached). 5/28/2024 - TIH Land 2-3/8" tbg, 244jts, J-55 4.7# @ 7597', SN @ 7584'. PBTD @ 8175'. ND BOP. NU WH, SIW, RDMO. Well is currently producing as downhole commingled Blanco Mesaverde / Basin Dakota - DHC5281

Well Name: ROSA UNIT

Well Location: T31N / R5W / SEC 33 /
NESE / 36.85388 / -107.36125County or Parish/State: RIO
ARRIBA / NM

Well Number: 77A

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMSF078773

Unit or CA Name: ROSA UNIT--DK,
ROSA UNIT--MVUnit or CA Number:
NMNM78407A, NMNM78407B

US Well Number: 3003925515

Operator: LOGOS OPERATING LLC

SR Attachments**Actual Procedure**

3160_5_Rosa_Unit_77A_Downhole_comingle_Subsequent_Rpt_20240528_20240624093112.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: ETTA TRUJILLO**Signed on:** JUN 24, 2024 09:32 AM**Name:** LOGOS OPERATING LLC**Title:** Regulatory Specialist**Street Address:** 2010 AFTON PLACE**City:** Farmington**State:** NM**Phone:** (505) 324-4154**Email address:** ETRUJILLO@LOGOSRESOURCESLLC.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** MATTHEW H KADE**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5055647736**BLM POC Email Address:** MKADE@BLM.GOV**Disposition:** Accepted**Disposition Date:** 06/24/2024**Signature:** Matthew Kade

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2025

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMSF078773

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

LOGOS Operating, LLC

3a. Address

2010 Afton Place
Farmington NM 87401

3b. Phone No. (include area code)

(505) 278-8720

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

Sec 33 Township 31N Range 5W, NESE (I), 1170' FSL & 1170' FEL

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Rosa Unit 77A

9. API Well No.

30-039-25515

10. Field and Pool or Exploratory Area

Blanco Mesaverde / Basin Dakota

11. Country or Parish, State

Rio Arriba County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | | |
|---|---|---|--|---|--|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off | |
| | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity | |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other | |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Downhole Commingle | |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

5/6/2024 - MIRU. ND WH. NU & test BOP. Good test. LD 1-1/4" short string. Working 1-1/2" tbg long string & seal assembly. Fail to pull up out of packer. SDFN.

5/7/2024 - RU WL. TIH & chemical cut 1-1/2" tbg @ 6102'. Pkr @ 6108'. RD WL. LD cut tbg. Pick up overshot, jar, pull up tbg to 5500'. SIW. SDFN.

5/8 - 5/14/2024 - TIH w/overshot & tag @ 6090'. Break circ. CO to top of 1-1/2" tbg, latch on, jar tbg free. LD parted tbg. TIH w/4-1/2" mill, to packer @ 6108'. Break circulation, mill packer to 6110', jar on packer could not latch on. TOO. TIH w/3-1/2" grapple, jar packer free. Stuck tail pipe below pkr. PU hole to free tbg. Spot 1000gals/15% acid. Pull overshot above perfs. SIW. SDFN.

5/15 - 5/24/2024 - Trip in overshot to 6116', jar on packer. TOO. Replace grapple w/3-7/16". TIH. Circulate. Latch on & TOO w/packer. TIH w/mill to top of 1-1/2" tbg f/6116' t/6120'. Trip in overshot. RU WL, chemical cut tubing @ 7063'. LD 29jts. Trip overshot to TOF @ 7067'. Jar on fish. TOO. TIH w/external cutter TOF @ 7067', wash over tbg. TOO. TIH w/2nd cutter, cut tbg @ 7304'. LD 7jts. MU overshot w/2-1/16" grapple, engage fish @ 7304'. RU WL. String shot tag @ 7655'. PU collar @ 7636'. POOH. RD WL. LD 10jts of 1-1/2" tbg. TOF @ 7636'. RU swivel break circ. Rotate over fish to 7877'. LD 7jts. RU WL, Run Gyro. RD WL. Wash over fish. Tag sand @ 8004'. CO to 8055'. Pump sweeps while working stuck pipe, could not pull free. SIW. SDFN.

5/25/2024 - Break circulation & work pipe. RU WL string shot to 7658'. RD WL. TOO. TOF @ 7658'. SIW. SDFW. **Received verbal approval from Monica Kuehling (OCD) & Virgil Lucero (BLM)** to leave fish in the well (see attached).

5/28/2024 - TIH Land 2-3/8" tbg, 244jts, J-55 4.7# @ 7597', SN @ 7584'. PBT @ 8175'. ND BOP. NU WH. SIW. RDMO.

Well is currently producing as downhole commingled Blanco Mesaverde / Basin Dakota - DHC5281

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Etta Trujillo

Title

Regulatory Specialist II

Signature

Etta Trujillo

Date

6/13/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

From: [Kuehling, Monica, EMNRD](#)
To: [Lucero, Virgil S](#)
Cc: [Vanessa Fields](#); [Catlain Richardson](#); [Krista McWilliams](#); [Joey Robinson](#); [Courtney Peace](#); [Kelly Maxwell](#); [Etta Trujillo](#); [Lacey Granillo](#); [Robert Bixler](#)
Subject: Re: [EXTERNAL] Fwd: Rosa Unit 77A Request for Permission to Leave Fish in the well
Date: Saturday, May 25, 2024 3:28:53 PM

Nmocd approves below
Thank you
Monica Kuehling
Nmocd
Sent from my iPad

On May 25, 2024, at 12:29 PM, Lucero, Virgil S <vlucero@blm.gov> wrote:

BLM approves request.

Get [Outlook for iOS](#)

From: Vanessa Fields <vfields@logosresourcesllc.com>
Sent: Saturday, May 25, 2024 11:57:30 AM
To: Lucero, Virgil S <vlucero@blm.gov>; EMNRD Kuehling Monica <monica.kuehling@emnrd.nm.gov>
Cc: Catlain Richardson <crichardson@logosresourcesllc.com>; Krista McWilliams <kmcwilliams@logosresourcesllc.com>; Joey Robinson <jrobinson@logosresourcesllc.com>; Courtney Peace <cpeace@logosresourcesllc.com>; Kelly Maxwell <kmaxwell@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <lgranillo@logosresourcesllc.com>; Robert Bixler <rbixler@logosresourcesllc.com>
Subject: [EXTERNAL] Fwd: Rosa Unit 77A Request for Permission to Leave Fish in the well

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good Morning,

LOGOS Operating requests permission to leave a fish in the Rosa Unit

77A (30-039-25515).

Project summary to date:

LOGOS Operating moved onto the well ton 5/6 to commingle and run a gyro survey for anti-collision planning for an offset proposed horizontal well.

The well was originally a Mesaverde/Dakota dual well with 1-1/4" and 1-1/2" tubing strings. The short string (1-1/4") was laid down as planned.

On 5/7, the long string was chemical cut just above the packer at 6107' as per procedure and the tubing above the cut was laid down.

When the 1-1/2" tubing and seal assembly was latched, the seal assembly was parted. The 5' stick up and part of the seal assembly were retrieved.

A shoe was tripped in to mill down to the packer followed by an overshot, and half of the seal assembly was retrieved. An additional day of fishing occurred during which the 6" of the packer was washed over, the packer was latched with an overshot, and the packer failed to be jarred free.

On 5/14, the packer was washed over from 6112' to 6116' with a 4-1/2" mill shoe. During subsequent days the packer was latched, at 6110' and jarred free; however, the 1-1/2" tail pipe below the packer was found stuck.

The packer was eventually retrieved, parting the tail pipe below the packer. The fish top was dressed and tubing was free-pointed and chemical cut at 7063' (greatest depth that could be reached inside the tubing). 29 joints of tubing were laid down and it was attempted to jar the tubing free from the new fish top at 7067' to no avail.

After a failed cutter attempt and a cleanout run with a shoe and wash pipe, an external cutter was run on 8 joints of wash pipe to cut at 7304' and 7 jts and 20' cut off of 1-1/2" tubing was retrieved.

The top of fish at 7304' was engaged with an overshot and a string shot was run and fired across from a collar at 7636'. 332' of 1-1/2" tubing was backed off and retrieved.

On 5/22, a 4-3/4" shoe, 8 jts 4-1/2" wash pipe, a string float, and jars were run in on a 2-3/8" work string to wash over the remainder of the fish to allow the remaining 212' of 1-1/2" tubing to be retrieved.

On 5/24, during wash over operations the fishing BHA became stuck.

For 12 hours, it has been attempted to circulate sweeps and free the fishing BHA to no avail.

Paths forwarded are extremely limited and have extensive potential cost implications.

To date, LOGOS Operating has spent \$349,500 attempting to fish the remaining tubing from the well.

Continued fishing operations will cost ~\$35,000 per day, and, if unsuccessful, would result in \$67,000 of equipment being left in the well.

However, if fishing is abandoned at this point, the work string can be backed off below the jars, leaving only \$26,000 of equipment in the well and minimizing further risk exposure.

Because extensive efforts have been made and capital invested well beyond the value of the Dakota in attempting to recover the stuck tubing, LOGOS Operating seeks permission to leave the fish in the well at ~7685' which is ~292' above the top of the Dakota. A new 2-3/8" tubing string will be run and the Measaverde and the Dakota will still be commingled with the Dakota continuing to produce to the greatest extent possible with the tubing landed above the fish top. For final abandonment, the final Dakota plug would be in the Graneros.

Initial and proposed well schematics are attached.

Thank you for your consideration,

|

Catlain Richardson

Production Engineering and Completion Manager

Phone: 505-278-8720

Mobile: 505-320-3499

Email: crichardson@logosresourcesllc.com

2010 Afton Place

Farmington, NM 87401

www.logosenergyllc.com

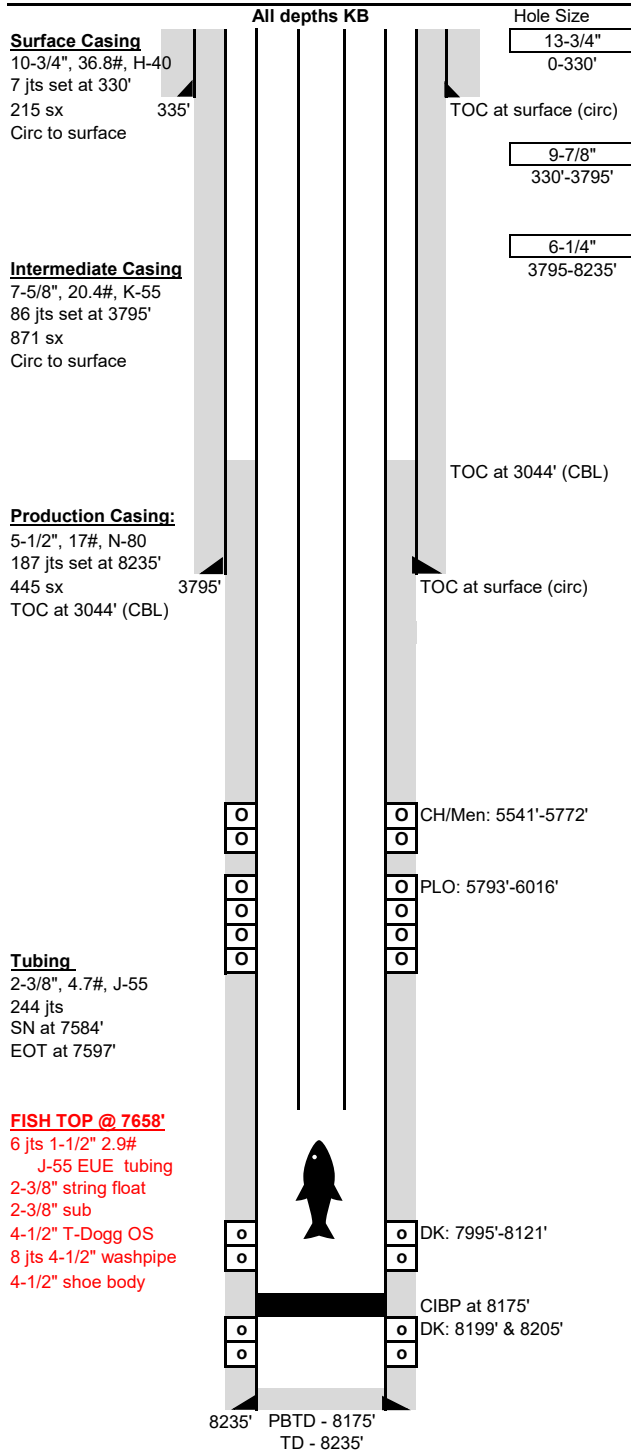


Wellbore Schematic

Well Name: Rosa Unit 77A
 Location: I-33-31N-05W 1575' FSL & 1170' FEL
 County: Rio Arriba, NM
 API #: 30-039-25515
 Co-ordinates: Lat 36.8531685, Long -107.3625946 NAD1983
 Elevations: GROUND: 6503'
 KB: 6515'
 Depths (KB): PBTD: 8175'
 TD: 8235'

Date Prepared: 12/15/2022 Moss
 Reviewed By: 1/11/2023 Peace
 Last Updated: 6/13/2024 Peace
 Spud Date: 6/19/1995
 Completion Date: 9/7/1995
 Last Workover Date: 5/6/2024

VERTICAL WELLBORE SCHEMATIC



Surface Casing: (06/20/1995)
 Drilled a 13-3/4" surface hole to 335'. Set 7 jts 10-3/4", 36.75#, H-40 csg at 330'.
 Cmt'd w/ 215 sx (254 cf) Class B cmt. Circ 2 bbls cmt to surface.

Intermediate Casing: (06/25/1995)
 Drilled a 9-7/8" intermediate hole to 3795'. Set 86 jts 7-5/8", 20.4#, K-55 csg at 3795'.
 Cmt'd w/ 641 sx Class B 65/35 poz (12.1 ppg, 2.05 yd, 1314 cf). Tailed w/ 230 sx
 Class B cmt (15.6 ppg, 1.18 yld, 271 cf). Circ 5 bbls to surface.

Production Casing: (06/29/1995)
 Drilled a 6-1/4" production hole to 8235'. Set 187 jts 5-1/2", 17#, N-80 csg at 8235'.
 Cmt'd w/ 345 sx Class B 50/50 poz w/ 4% gel (13.4 ppg, 1.35 yld, 466 cf). Tailed
 w/ 100 sx Class H cmt (16.2 ppg, 1.44 yld, 140 cf). TOC at 3044' per CBL (1995).

| Tubing: | Length (ft) |
|--|-------------|
| KB | 12 |
| (243) 2-3/8" 4.7# J-55 tbg jts | 7550 |
| (1) 2-3/8" x 2' pup jt | 2 |
| (1) 2-3/8" 4.7# J-55 tbg jt | 31 |
| (1) 1.78" SN (7584') | 1 |
| (1) 2-3/8" 1/2 Muleshoe w/ sawtooth collar | 1 |
| Set at: | 7597 ft |

Artificial Lift:
 NA

Perforations: (08/1995)
Lower DK: (8199' & 8205') 2 holes. Acidized w/ 250 gal 15% acid. Did not stim.
Upper DK: (7995'-8121') 1 SPF. 14, 0.36" holes. 7995', 8000', 05, 10, 45, 50, 55, 60, 65, 70, 75, 85, 99, 8121'. Acidize w/ 500 gal 15% HCL. Frac w/ 100,804# 20/40 sand in 590 bbls 30# X-link gel 60Q foam.
PLO: (5793'-6016') 1 SPF. 30, 0.36" holes. 5793', 97, 5801', 03, 05, 11, 17, 21, 23, 37, 53, 56, 59, 66, 69, 73, 83, 88, 5904', 07, 10, 21, 27, 41, 44, 66, 73, 97, 6002', 6016'. Acidized w/ 500 gal 15% HCL. Frac w/ 96,000# 20/40 sand in 1,096 bbls slickwater.
CH/Men: (5541'-5772') 1 SPF. 25, 0.36" holes. 5541', 43, 45, 81, 97, 5599', 5617', 19, 21, 23, 35, 39, 44, 67, 73, 79, 91, 95, 97, 5705', 23, 27, 31, 50, 5772'.
 Acidized w/ 1500 gal 15% HCL. Frac w/ 82,000# 20/40 sand in 1,098 bbls slickwater.

| Formations: | MD |
|-----------------|-------|
| Ojo Alamo | 2626' |
| Kirtland | 2716' |
| Fruitland | 3134' |
| Pictured Cliffs | 3397' |
| Cliff House | 5518' |
| Menefee | 5572' |
| Point Lookout | 5792' |
| Mancos | 6005' |
| Greenhorn | 7820' |
| Graneros | 7873' |
| Dakota | 7977' |

Additional Notes:
1995 Initial Completion. Both DK & CH formations screened out during stim, volumes above are what made it into formation. Set MV tbg at 6003' & DK at 8089'.
07/2003 Pulled MV tbg, parted DK tbg while trying to TOOH. Fished DK tbg & TOOH. Ran directional survey. RIH w/ dual strings. MV EOT at 6003' DK EOT at 8089'.
5/2024 Commingled wellbore. LD MV tbg string. Freepoint & cut 1-1/2" at 6102', LD 183 jts. RIH w/ overshot & tools, jarred fish free, LD fish. Spent 6 days attempting to latch onto pkr, LD pkr. Extensive cut and recover operations attempting to retrieve 1-1/2" tbg. During the retrieval attempt, the was pipe and tools got stuck. Decided to leave the tools downhole. Landed tbg at 7597'.

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 357005

CONDITIONS

| | |
|---|--|
| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 357005 |
| | Action Type: [C-103] Sub. Workover (C-103R) |

CONDITIONS

| Created By | Condition | Condition Date |
|----------------|----------------------|----------------|
| andrew.fordyce | Accepted for record. | 9/2/2025 |