

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

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

DHC-5296

Form C-103
 Revised July 18, 2013

| | | |
|--|--|--|
| 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.) | | WELL API NO. 30-039-26960 |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other | | 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator LOGOS Operating, LLC | | 6. State Oil & Gas Lease No. NMSF078773 |
| 3. Address of Operator 2010 Afton Place, Farmington, New Mexico 87401 | | 7. Lease Name or Unit Agreement Name ROSA UNIT |
| 4. Well Location Unit Letter <u>B</u> : <u>940'</u> feet from the <u>North</u> line and <u>2255'</u> feet from the <u>East</u> line Section <u>33</u> <u>31N</u> Township <u>05W</u> Range <u>NMPM</u> Rio Arriba County | | 8. Well Number <u>147B</u> |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6513' | | 9. OGRID Number 289408 |
| | | 10. Pool name or Wildcat Blanco Mesaverde / Basin Dakota |

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

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|--|---|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPL <input type="checkbox"/> | CASING/CEMENT JOB <input type="checkbox"/> | |
| DOWNHOLE COMMINGLE <input checked="" type="checkbox"/> | | | |
| CLOSED-LOOP SYSTEM <input type="checkbox"/> | | | |
| OTHER: <input type="checkbox"/> | | OTHER: <input type="checkbox"/> | |

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. Pre-approved Pool Division Order R-11363
2. Pools to be commingled Blanco Mesaverde (72319) and Basin Dakota (71599).
3. Perforated intervals:
 Blanco Mesaverde 5379' – 6094'
 Basin Dakota 8059' – 8198'
4. Fixed percentage allocation 32.9% Blanco Mesaverde and 67.1% Basin Dakota
5. Commingling will not reduce the value of reserves
6. Notification of working, royalty, and overriding royalty interest owners; no notice is required per R-12991
7. The BLM has been notified on sundry notice form 3160-5, 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 Etta Trujillo TITLE Regulatory Specialist DATE 6/26/2023

Type or print name Etta Trujillo E-mail address: etrujillo@logosresourcesllc.com PHONE: 505-324-4154

For State Use Only

APPROVED BY: Dean R McIlure TITLE Petroleum Engineer DATE 06/30/2023
 Conditions of Approval (if any):

CONDITIONS OF APPROVAL

If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Permit to become inaccurate, then no later than sixty (60) days after that event, the Operator shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Permit shall terminate on the date of such action.

If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred the Operator shall submit a new downhole commingling application to OCD to amend this Permit to remove the pool that caused the decrease in value. If the Operator fails to submit a new application, this Permit shall terminate on the following day, and if OCD denies the application, this Permit shall terminate on the date of such action.

If a completed interval of the Well is altered from what is submitted within this application, then no later than sixty (60) days after the alteration, the Operator shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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

7. If Unit of CA/Agreement, Name and/or No.
NMNM78407A
NMNM78407B

8. Well Name and No.

Rosa Unit 147B

9. API Well No.

30-039-26960

10. Field and Pool or Exploratory Area

Blanco Mesaverde / Basin Dakota

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

Unit B, Section 33 T31N R05W 940' FNL & 2255' FEL

11. Country or Parish, State

Rio Arriba, NM

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | | |
|--|---|---|--|--|--|
| <input checked="" 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"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity | |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other Downhole Commingle | |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | | |
| | <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 recompleat 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 perfonned 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 recompleat 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 detennined that the site is ready for final inspection.)

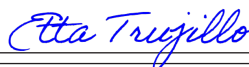
LOGOS Operating, LLC request to downhole commingle the Mesaverde and Dakota per the attached procedure, current and proposed wellbore diagram.

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

Etta Trujillo

Title Regulatory Specialist

Signature



Date 6/23/2023

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

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.

(Instructions on page 2)

| Well Name | Well Number | US Well Number | Lease Number | Case Number | Operator |
|-----------|-------------|----------------|--------------|-------------|----------|
| ROSA UNIT | 147B | 300392696000D2 | NMSF078773 | NMNM78407A | LOGOS |
| ROSA UNIT | 147B | 300392696000D1 | NMSF078773 | NMNM78407B | LOGOS |

Notice of Intent

Sundry ID: 2737716

Type of Submission: Notice of Intent

Type of Action: Commingling (Subsurface)

Date Sundry Submitted: 06/23/2023

Time Sundry Submitted: 01:39

Date proposed operation will begin: 06/23/2023

Procedure Description: LOGOS Operating, LLC request to downhole commingle the Mesaverde and Dakota per the attached procedure, current and proposed wellbore diagram.

NOI Attachments

Procedure Description

3160_5_Rosa_Unit_147B_Downhole_Commingling_20230623_20230623133835.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 23, 2023 01:38 PM**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:** KENNETH G RENNICK**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5055647742**BLM POC Email Address:** krennick@blm.gov**Disposition:** Approved**Disposition Date:** 06/23/2023**Signature:** Kenneth Rennick



DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2023)

Rosa Unit 147B
30-039-26960
940' FNL & 2255' FEL
Section 33, T31N, R05W
Rio Arriba, New Mexico
LAT: 36.8607216° N LONG: -107.3663025° W
Mesaverde/Dakota

PROJECT OBJECTIVE:

Remove packer and set a bridge plug above the Mesaverde perforations and load hole to protect the wellbore during offset completions. Once offset completions are complete, remove bridge plug and downhole commingle Mesaverde and Dakota.

WORKOVER PROCEDURE:

1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM, and NMOCD rules and regulations.
2. Lay flow lines. Check and record casing and tubing pressures. Sell pressure down to line. Kill well if necessary.
3. Nipple down wellhead and nipple up BOP.
4. Release Mesaverde tubing string. Trip out of hole with Mesaverde tubing string and lay down.
5. Release Dakota tubing string. Trip out of hole with Dakota tubing string and lay down.
6. Run in hole with packer plucker to retrieve Model B Packer at 6209'. Trip out of hole with packer plucker assembly and string.
7. Set bridge plug within 50' of the Mesaverde perforations and load the hole with KCL water. SI well for offset completions.
8. Once offset completions are complete, trip in hole and remove the bridge plug.
9. Run in hole with single 2-1/16" production tubing string.
10. Return to production as a Mesaverde/Dakota commingle.

PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Cumulative production was used to determine allocations and allocations were verified with recent production history.

Cumulative Production

| | |
|---------------------------------|-------------|
| Cumulative production from well | 2028.5 MMcf |
| Cumulative MV production | 667.8 MMcf |
| Cumulative DK production | 1360.7 MMcf |

MV allocation = MV cumulative/total cumulative = $667.8/2028.5 = 32.9\%$

DK allocation = DK cumulative /total cumulative = $1360.7/2028.5 = 67.1\%$

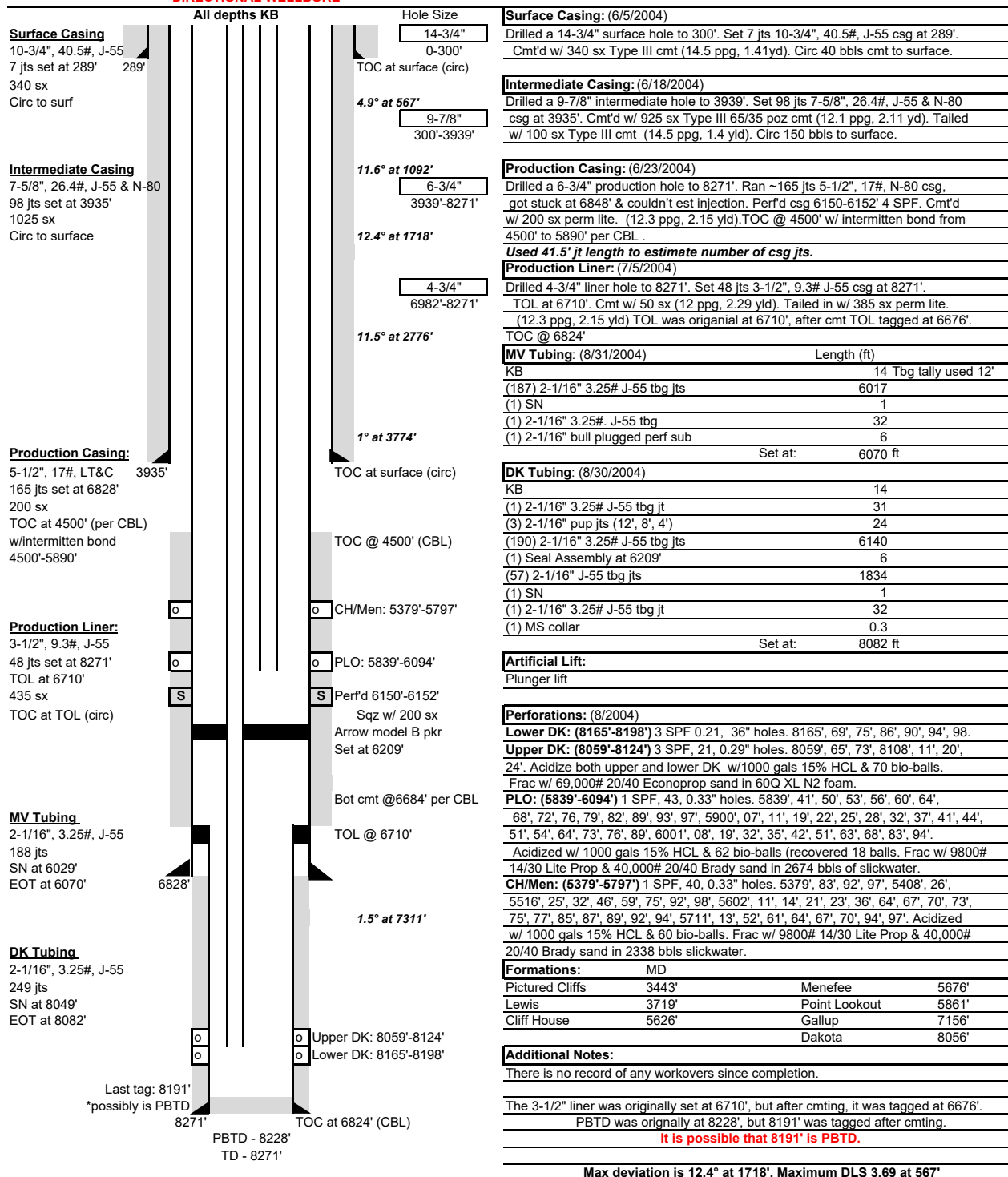


Wellbore Schematic

Well Name: Rosa Unit 147B
 Location: B-33-31N-05W 940' FNL & 2255' FEL
 County: Rio Arriba, NM
 API #: 30-039-26960
 Co-ordinates: Lat 36.8607216, Long -107.3663025 NAD83
 Elevations: GROUND: 6513'
 KB: 6526'
 PBTD: 8228'
 TD: 8271'
 Depths (KB):

Date Prepared: 11/30/2022 Peace
 Reviewed By: 12/5/2022 Moss
 Last Updated:
 Spud Date: 6/4/2004
 Completion Date: 9/26/2004
 Last Workover Date: N/A

DIRECTIONAL WELLBORE



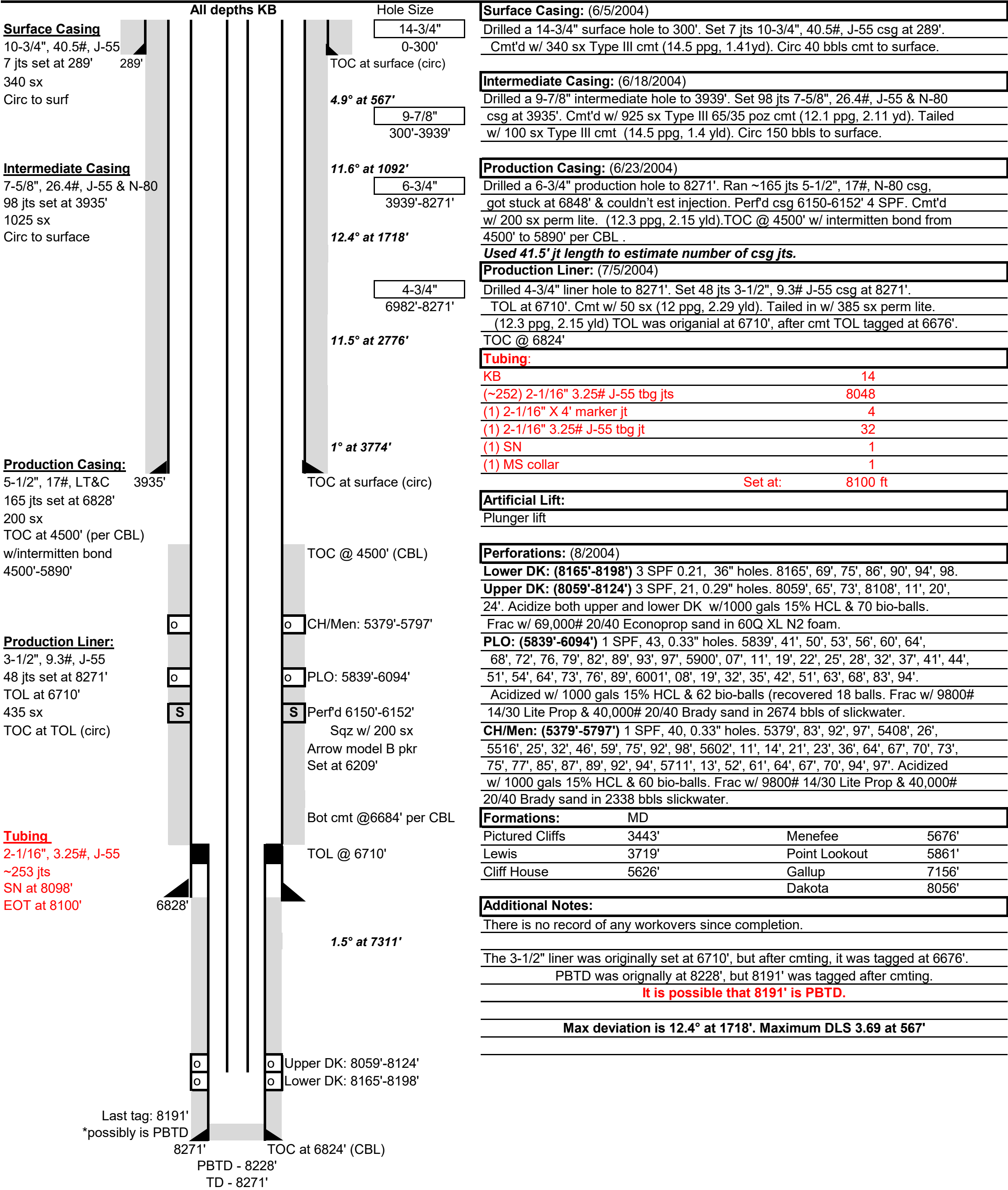


Wellbore Schematic

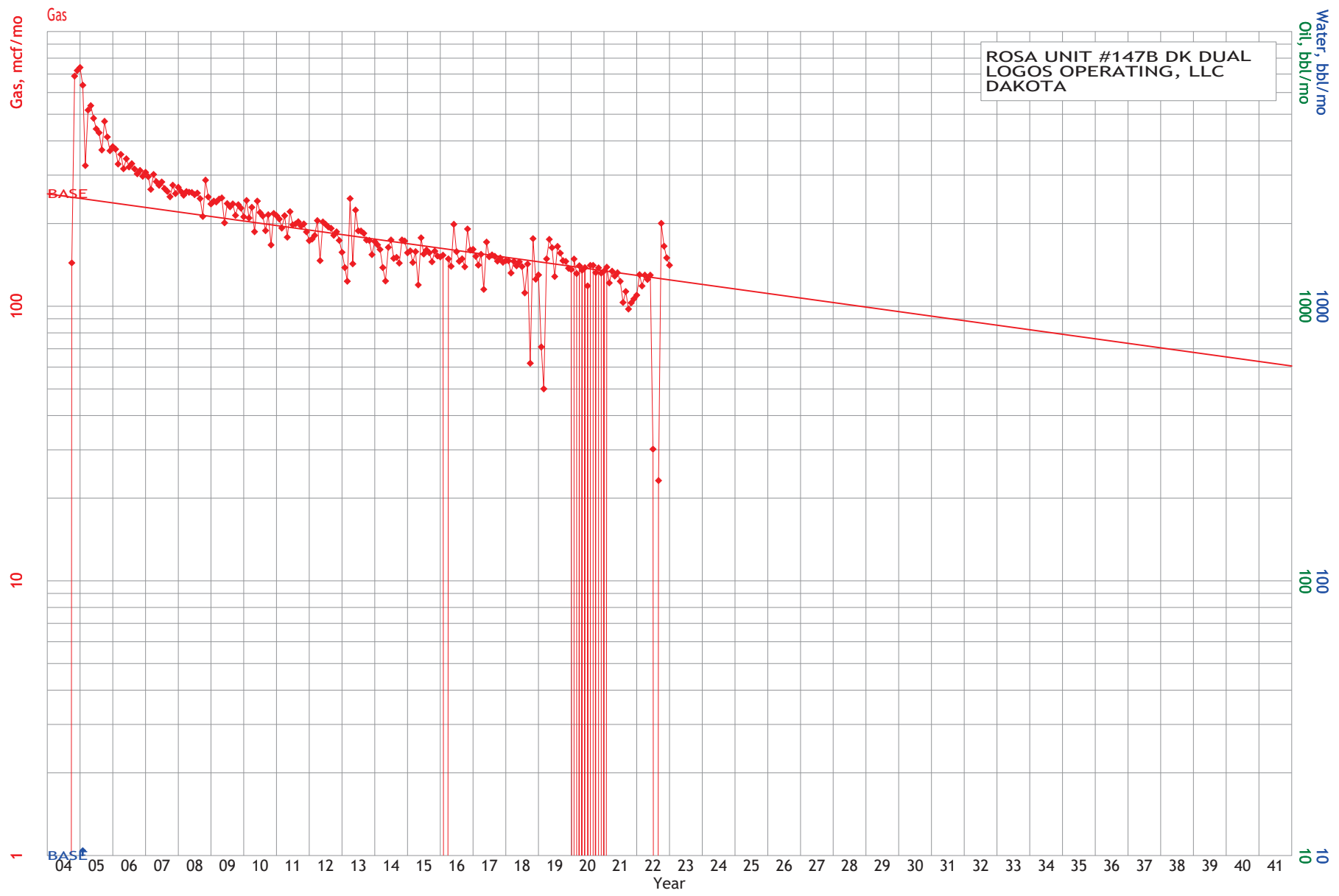
| | | |
|---------------|---|----------------------|
| Well Name: | Rosa Unit 147B | |
| Location: | B-33-31N-05W | 940' FNL & 2255' FEL |
| County: | Rio Arriba, NM | |
| API #: | 30-039-26960 | |
| Co-ordinates: | Lat 36.8607216, Long -107.3663025 NAD83 | |
| Elevations: | GROUND: | 6513' |
| | KB: | 6526' |
| | PBTD: | 8228' |
| | TD: | 8271' |
| Depths (KB): | | |

| | |
|---------------------|------------------|
| Date Prepared: | 11/30/2022 Peace |
| Reviewed By: | 12/5/2022 Moss |
| Last Updated: | |
| Spud Date: | 6/4/2004 |
| Completion Date: | 9/26/2004 |
| Last Workover Date: | N/A |
| | |
| | |

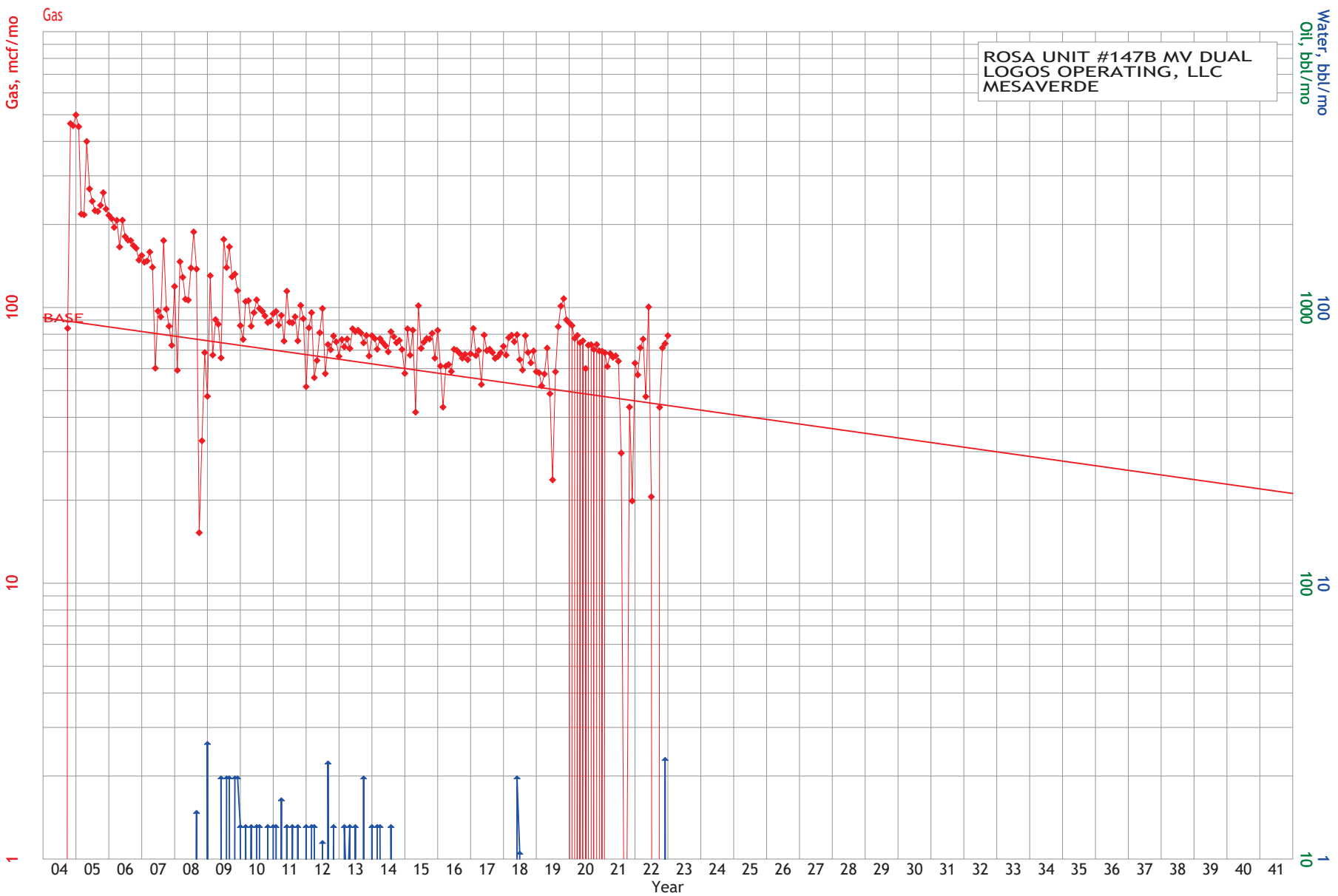
PROPOSED WELLBORE SCHEMATIC



ROSA UNIT #147B DK DUAL
LOGOS OPERATING, LLC
DAKOTA



| | | |
|--------------|--------------|--------------|
| Gas, mcf/mo | Oil, bbl/mo | Water, bbl/m |
| Qual= BASE | Qual= BASE | Qual= BASE |
| Ref= 1/2023 | Ref= 1/2023 | Ref= 1/2023 |
| Cum= 1360656 | Cum= 6493 | Cum= 5302 |
| Rem= 1171558 | Rem= 11795 | Rem= 11795 |
| EUR= 2532214 | EUR= 59.167 | EUR= 0.5 |
| Yrs= 99.750 | Qi= 0.000000 | b= 0.000000 |
| Qi= 124.7 | De= 3.725540 | De= 2.690000 |
| b= 0.000000 | Qab= 2.8 | Qab= 0.1 |



| | | | | | |
|-------------|----------|-------------|--------|---------------|--------|
| Gas, mcf/mo | — | Oil, bbl/mo | ◆◆◆ | Water, bbl/mo | ▲▲▲ |
| Qual= | BASE | Ref= | 1/2023 | Ref= | 1/2023 |
| Cum= | 667770 | Cum= | 0 | Cum= | 1810 |
| Rem= | 407866 | | | | |
| EUR= | 1075636 | | | | |
| Yrs= | 99.750 | | | | |
| Qi= | 44.1 | | | | |
| b= | 0.000000 | | | | |
| De= | 3.789597 | | | | |
| Qab= | 0.9 | | | | |

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 232710

CONDITIONS

| | |
|---|--|
| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 232710 |
| | Action Type: [C-107] Down Hole Commingle (C-107A) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| dmcclure | If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Permit to become inaccurate, then no later than sixty (60) days after that event, the Operator shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Permit shall terminate on the date of such action. | 6/30/2023 |
| dmcclure | If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred the Operator shall submit a new downhole commingling application to OCD to amend this Permit to remove the pool that caused the decrease in value. If the Operator fails to submit a new application, this Permit shall terminate on the following day, and if OCD denies the application, this Permit shall terminate on the date of such action. | 6/30/2023 |
| dmcclure | If a completed interval of the Well is altered from what is submitted within this application, then no later than sixty (60) days after the alteration, the Operator shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval. | 6/30/2023 |