

Santa Fe Main Office  
Phone: (505) 476-3441  
General Information  
Phone: (505) 629-6116

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

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

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

WELL API NO. 30-045-32734
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ROSA UNIT
8. Well Number 185B
9. OGRID Number 289408
10. Pool name or Wildcat BASIN DAKOTA/BLANCO MESAVERDE
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6428'

**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  
LOGOS OPERATING, LLC

3. Address of Operator  
2010 AFTON PLACE, FARMINGTON, NM 87401

4. Well Location  
Unit Letter F : 1725' feet from the NORTH line and 2155' feet from the WEST line  
Section 16 T31N Township R06W Range NMPM SAN JUAN County

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
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.

Pre-approved Pool Division Order R-13122.  
Pools to be commingled: Mesa Verde (72319) and Basin Dakota (71599)  
Perforated Intervals:  
Mesa Verde: 5546'-6357'  
Basin Dakota: 8312'- 8474'

Because uplift is expected from both zones by commingling the well, a fixed production allocation established by historical well behavior is not expected to be accurate (see procedure attached). Commingling will not reduce the value of the reserves. Interest owners in the spacing unit have not been notified of the intent of the downhole commingling per order R-12991. 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 II DATE 3/18/2025

Type or print name \_\_\_\_\_ E-mail address: \_\_\_\_\_ PHONE: \_\_\_\_\_  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of Approval (if any): \_\_\_\_\_

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

**Well Name:** ROSA UNIT

**Well Location:** T31N / R6W / SEC 16 /  
SEW / 36.9021044 / -107.4692652

**County or Parish/State:** SAN  
JUAN / NM

**Well Number:** 185B

**Type of Well:** CONVENTIONAL GAS  
WELL

**Allottee or Tribe Name:**

**Lease Number:** STATE

**Unit or CA Name:** ROSA UNIT--DK,  
ROSA UNIT--MV

**Unit or CA Number:**  
NMNM78407A, NMNM78407B

**US Well Number:** 3004532734

**Operator:** LOGOS OPERATING LLC

### Notice of Intent

**Sundry ID:** 2841994

**Type of Submission:** Notice of Intent

**Type of Action:** Commingling (Subsurface)

**Date Sundry Submitted:** 03/17/2025

**Time Sundry Submitted:** 08:56

**Date proposed operation will begin:** 04/01/2025

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

### NOI Attachments

**Procedure Description**

Rosa\_Unit\_185B\_\_\_Commingle\_Allocation\_Procedure\_20250317085541.pdf

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SEW / 36.9021044 / -107.4692652

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JUAN / NM

Well Number: 185B

Type of Well: CONVENTIONAL GAS  
WELL

Allottee or Tribe Name:

Lease Number: STATE

Unit or CA Name: ROSA UNIT--DK,  
ROSA UNIT--MV

Unit or CA Number:  
NMNM78407A, NMNM78407B

US Well Number: 3004532734

Operator: LOGOS OPERATING LLC

### 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: MAR 17, 2025 08:57 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: Approved

Disposition Date: 03/18/2025

Signature: Matthew Kade



## DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION

**Rosa Unit 185B**  
**30-045-32734**  
**1725' FNL & 2155' FWL**  
**Section 16, T31N, R06W**  
**San Juan County, New Mexico**  
**LAT: 36.9021683° N LONG: -107.4698563° W**  
**Mesaverde/Dakota**

### **PROJECT OBJECTIVE:**

The packer will be removed, a gyro survey run, and a bridge plug set above the Dakota perforations. Pending results of the gyro survey, an additional bridge plug may be set below the Mesaverde perforations to isolate the Mancos formation during offset development. 2-3/8" tubing will be run, and the well will remain shut in for the duration of offset development. Once offset development is completed, the Mesaverde will be produced with plunger lift via the 2-3/8" tubing, leaving the Dakota temporarily abandoned for ~six (6) months. Once uplift and baseline production decline for the Mesaverde is established, the bridge plug(s) set above the Dakota will be milled out and the well will be downhole commingled.

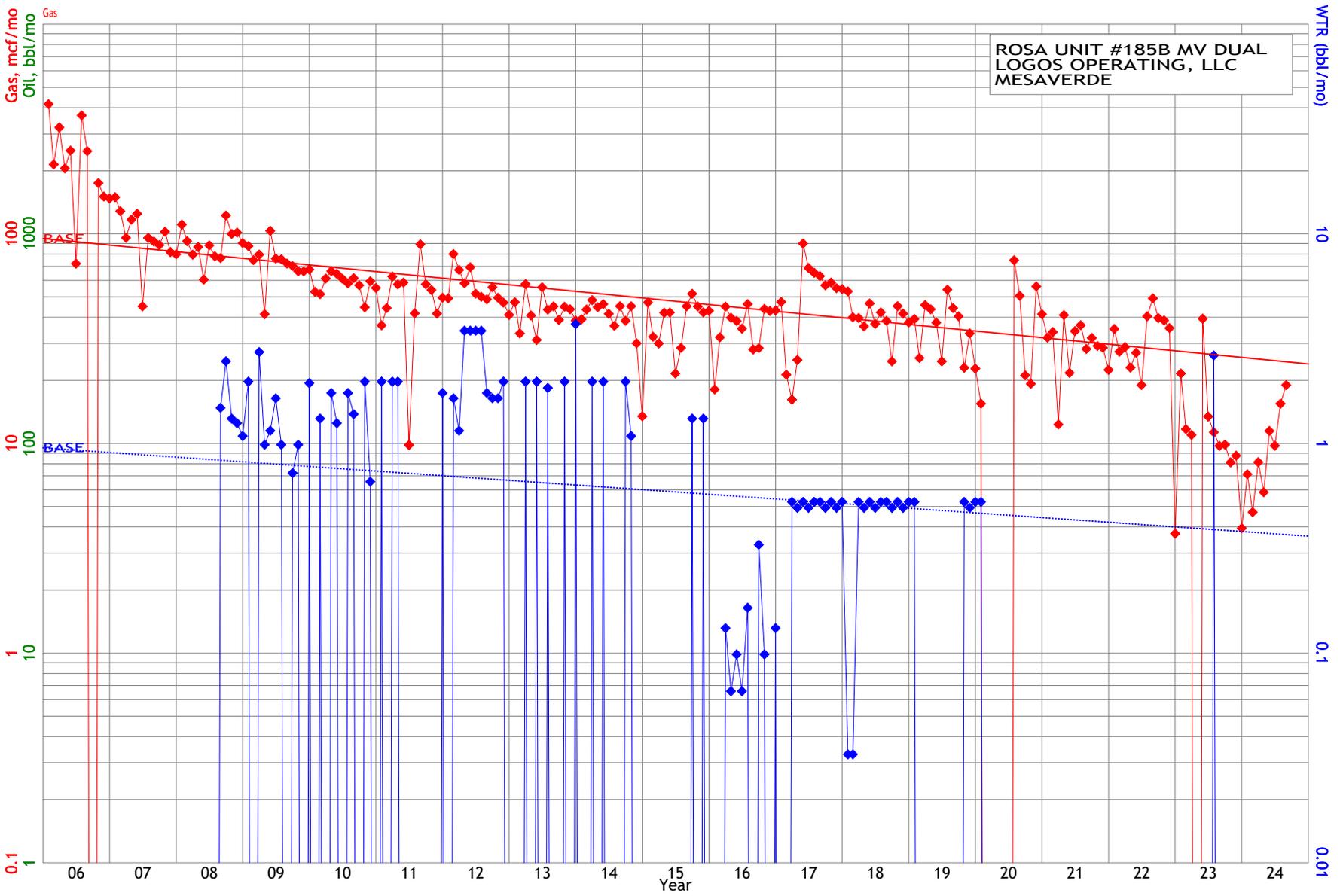
### **WORKOVER PROCEDURE:**

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 as 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 D Packer at 6494'. Trip out of hole with packer plucker assembly and string.
7. RU wireline to run gyro to 8033'.
8. Set bridge plug at ~7994' or within 1 jt deeper.
9. Based on results of gyro survey, if necessary, set a second bridge plug within 50' below the Mesaverde perforations.
10. Trip in hole with 2-3/8" tubing.
11. SI well for offset development.
12. Once offset development is complete, install plunger lift to produce the Mesaverde only.
13. After ~6 months, pull the tubing, and mill out the bridge plug(s).
14. Run a single 2-3/8" production tubing string and install plunger lift.
15. Return to production as a Mesaverde/Dakota commingle.

LOGOS Operating, LLC  
Rosa Unit 185B  
Commingle  
Page 2 of 2

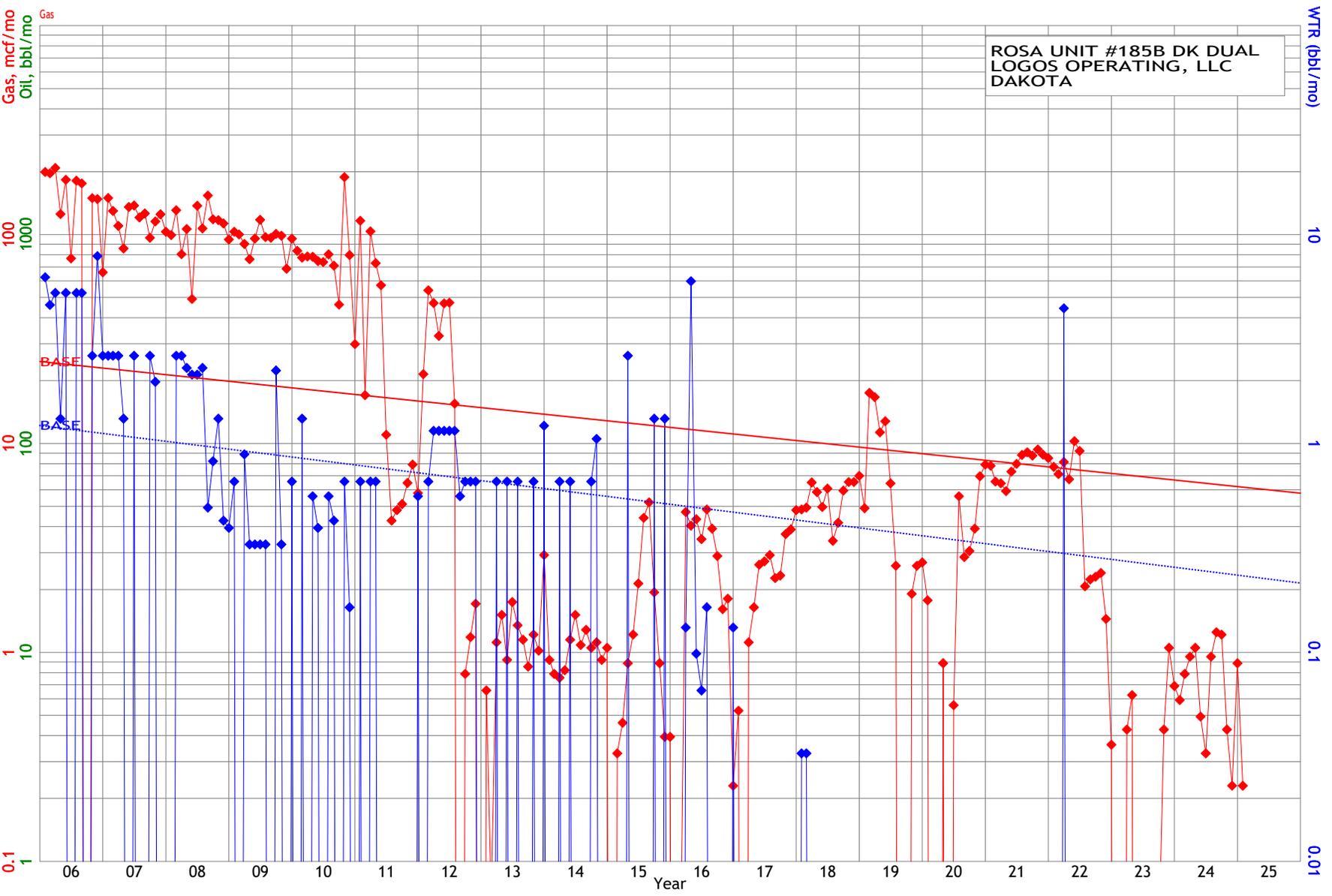
**PRODUCTION ALLOCATION**

Because uplift is expected from both zones by commingling the well, a fixed production allocation established by historical well behavior is not expected to be accurate. Therefore, LOGOS proposes a six (6) month period of production testing the Mesaverde during which a bridge plug will be over the Dakota, 2-3/8" tubing and plunger lift will be installed for the Mesaverde, and a baseline Mesaverde production rate and decline will be established. After six (6) months of production, the bridge plug will be removed from the Dakota, the tubing will be landed at a depth ideal for Mesaverde and Dakota commingled production, and the commingle allocation will be made using a subtraction methodology in which gas beyond the established Mesaverde rate and decline is allocated to the Dakota. The subtraction allocation methodology will be employed for 4 years, unless both formations exhibit declines that are easily predictable by decline analysis. If such is the case, a sundry will be submitted to use a fixed percentage allocation method.



Gas, mcf/mo	Oil, bbl/mo	WTR (bbl/mo)
Qual= BASE	Qual= BASE	Qual= BASE
Ref= 9/2024	Ref= 9/2024	Ref= 9/2024
Cum= 376310	Cum= 3035	Cum= 3035
Rem= 121672	Rem= 1923	Rem= 1923
EUR= 497982	EUR= 4958	EUR= 4958
Yrs= 59.417	Yrs= 25.833	Yrs= 25.833
Qi= 24.5	Qi= 0.4	Qi= 0.4
b= 0.000000	b= 0.000000	b= 0.000000
De= 7.000000	De= 4.977507	De= 4.977507
Qab= 0.3	Qab= 0.1	Qab= 0.1

ROSA UNIT #185B DK DUAL  
LOGOS OPERATING, LLC  
DAKOTA



Gas, mcf/mo	Oil, bbl/mo	WTR (bbl/mo)
Qual= BASE	Qual= BASE	Qual= BASE
Ref= 2/2025	Ref= 2/2025	Ref= 2/2025
Cum= 233934	Cum= 3809	Cum= 3809
Rem= 29429	Rem= 979	Rem= 979
EUR= 263363	EUR= 4788	EUR= 4788
Yrs= 40.500	Yrs= 92.167	Yrs= 92.167
Qi= 6.2	Qi= 0.2	Qi= 0.2
b= 0.000000	b= 0.000000	b= 0.000000
De= 7.000000	De= 8.310643	De= 8.310643
Qab= 0.3	Qab= 0.0	Qab= 0.0

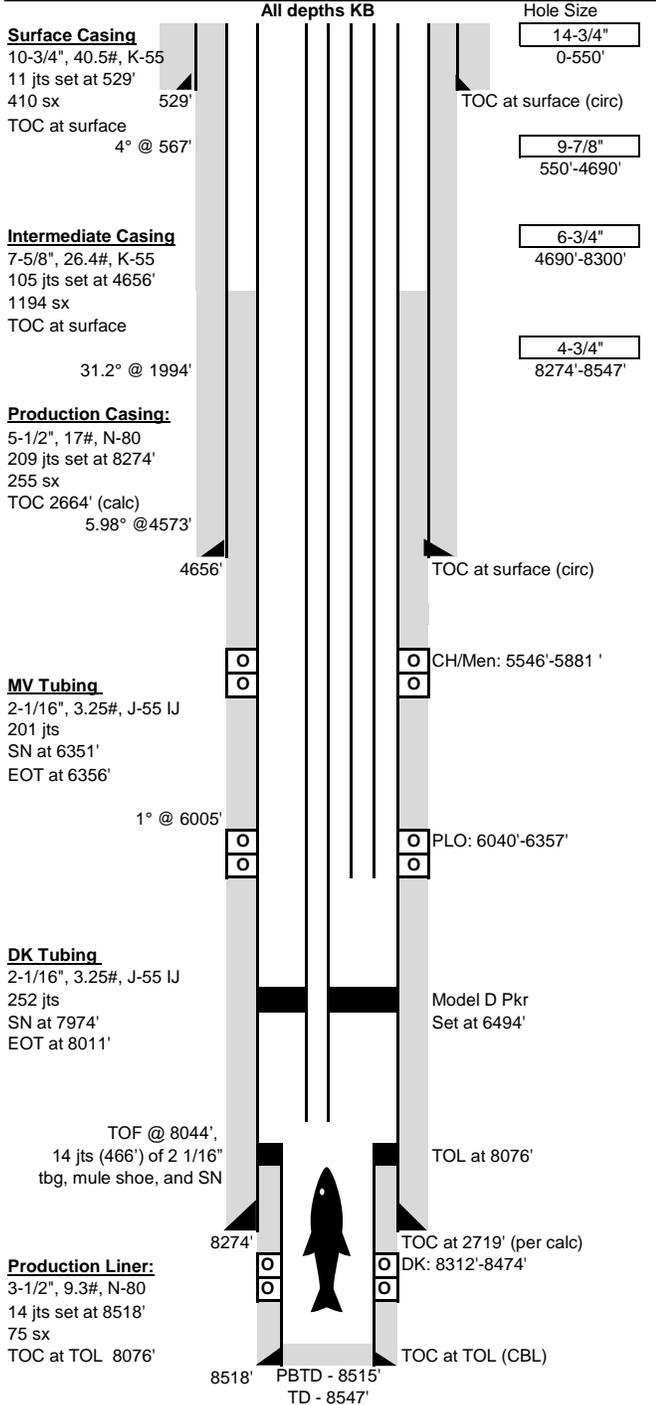


**Wellbore Schematic**

Well Name: Rosa Unit 185B  
 Location: Sec 16, T31N, R06W 1725' FNL & 2155' FWL  
 County: San Juan County, NM  
 API #: 30-045-32734  
 Co-ordinates: Lat 36.9021683 Long -107.4698563 NAD83  
 Elevations: GROUND: 6428'  
 KB: 6442'  
 Depths (KB): PBTD: 8515'  
 TD: 8547'

Date Prepared: 5/10/2024 Peace  
 Reviewed By: Mar 14, 2025 [Signature]  
 Last Updated: \_\_\_\_\_  
 Spud Date: 6/10/2005  
 Completion Date: 7/1/2005  
 Last Workover Date: N/A

**DIRECTIONAL WELLBORE**



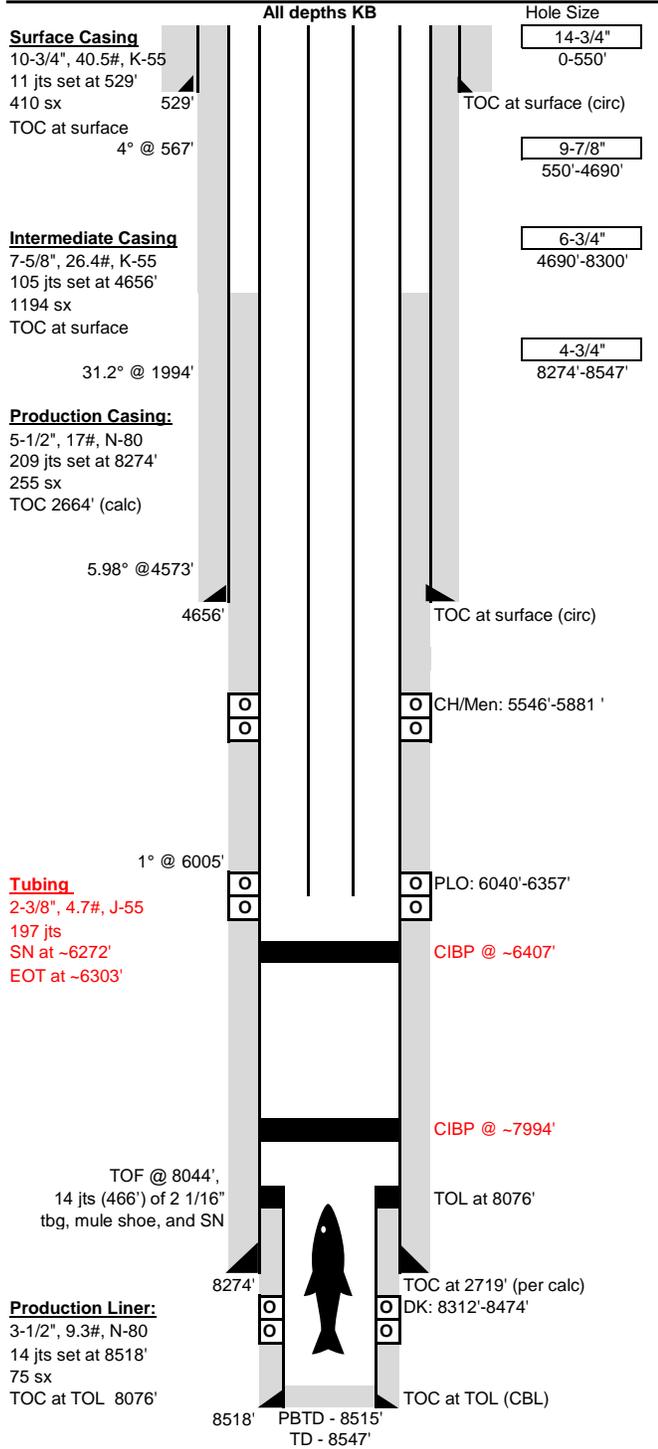


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 Completion Date: 7/1/2005  
 Last Workover Date: N/A

**PROPOSED WELLBORE ISOLATION SCHEMATIC**



**Surface Casing: (6/12/2005)**  
 Drilled a 14-3/4" surface hole to 550'. Set 11 jts 10-3/4", 40.5#, K-55 csg at 529'. Cmt w/ 410sx (14.5 ppg, 1.41 yld, 578 cf) Type III cmt, circ 57 bbls to surface.

**Intermediate Casing: (6/25/2005)**  
 Drilled a 9-7/8" intermediate hole to 4690'. Set 105 jts 7-5/8", 26.4#, K-55 csg at 4656'. Cmt lead w/ 1094 sx (12.1 ppg, 2.11 yield, 2308 cf) Premium lite, tail w/ 100 sx (14.5 ppg, 1.39 yield, 139 cf) Type III cmt. Circ 20 bbls to surface.

**Production Casing: (7/3/2005)**  
 Drilled a 6-3/4" production hole to 8300'. Set 209 jts 5-1/2", 17#, N-80 csg at 8274'. Cmt lead w/ 50 sx Premium lite Class G (11.6 ppg, 2.61 yld, 131 cf), cmt tail w/ 205 sx Premium lite Class H (12.3 ppg, 2.15 yld, 441 cf). TOC at 2719' (calc).

**Production Liner: (7/11/2005)**  
 Drilled a 4-3/4" production hole to 8547'. Set 14 jts 3-1/2", 9.3#, N-80 EUE csg at 8518'. Cmt'd w/ 75 sx Premium lite Class G (12.3 ppg, 2.13 yld, 160 cf). TOL at 8076'. Circ 12 bbls to surface. TOC at TOL.

**Tubing:**

	Length (ft)
KB	14
(196) 2-3/8" 4.7# J-55 tbg jts	6251
(1) 2-3/8" x 4' marker jt	4
(1) 2-3/8" 4.7# J-55 tbg jt	32
(1) 1.78" SN	1
(1) 2-3/8" 1/2 Muleshoe collar w/ exp check	1
<b>Set at:</b>	<b>6303 ft</b>

**Artificial Lift:**  
 NA

**Perforations: (7/2005)**  
**DK: (8312'-8474')** 3 SPF. 24, 0.32" holes. 8312', 30', 36', 42', 48', 56', 64', 72', 78', 84', 90', 96', 8402', 08', 14', 20', 29', 38', 44', 50', 56', 62', 68', 74'. Acidized w/ 12 bbls of 15% acid. Frac'd w/ 60,000# 20/40 Carbolite sand in 540 bbls of water, 45Q foam.  
**PLO: (6040'-6357')** 1 SPF. 54, 0.38" holes. 6040', 53', 66', 70', 74', 78', 82', 87', 92', 97', 6101', 09', 13', 17', 21', 26', 30', 34', 39', 44', 50', 58', 62', 66', 70', 79', 84', 88', 92', 96', 6208', 15', 17', 21', 26', 34', 40', 47', 53', 55', 66', 67', 70', 74', 81', 86', 89', 6304', 13', 27', 40', 50', 54', 57'. Acidized w/ 24 bbls of 15% acid. Frac w/ 13,680# 14/30 Lit prop in 2005 bbls of water.  
**CH/Men: (5546'-5881')** 1 SPF. 42, 0.38" holes. 5546', 58', 65', 69', 79', 83', 87', 95', 5600', 06', 12', 16', 20', 27', 36', 53', 74', 89', 5704', 17', 25', 33', 40', 56', 66', 76', 94', 5802', 10', 18', 21', 24', 31', 43', 50', 62', 66', 69', 74', 78', 81'. Acidized w/ 24 bbls 15% HCL. Frac w/ 13,740# 14/30 Lit prop 125 & 20/40 sand in 2,071 bbls water.

**Formations:**

Formation	MD	Point Lookout	6034'
Pictured Cliffs	3720'	Mancos	6398'
Lewis	5467'	Dakota	8230'
Cliff House	5846'		
Menefee			

**Additional Notes:**  
**2005** Initial Completion. Completed the DK & MV. During tubing installation, the rig operator mishandled the slips and struck the production packer at high speed with the tbg, dislodging the pump check valve. Multiple recovery attempts failed, leaving 466' of 2-1/16" tubing and equipment stuck at 8,044'. Set 2-1/16" MV tbg at 6356' & 2-1/16" DK tbg at 8011' w/ PKR at 6494'.

**Max deviation 31.2° @ 1994' & Max dogleg severity 5.17° @ 1305'**  
 No records of any workovers

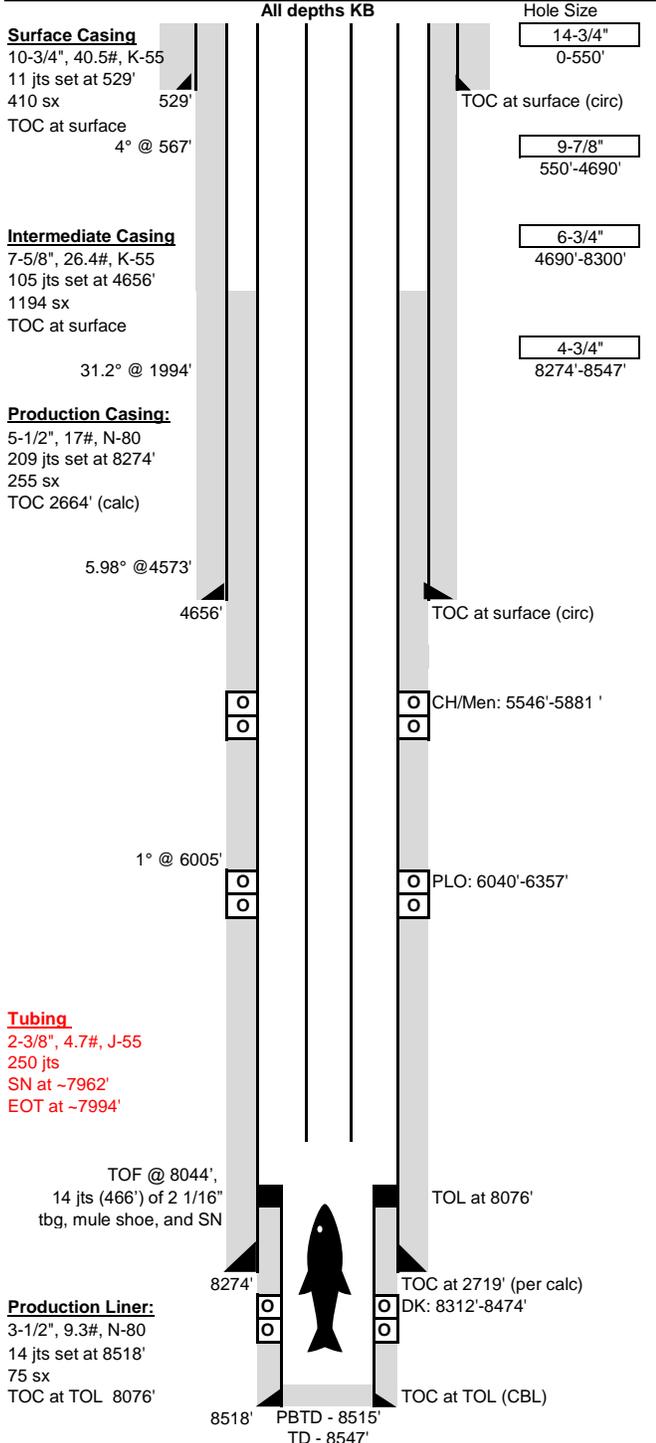


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**Production Liner: (7/11/2005)**  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 443864

**CONDITIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 443864
	Action Type: [C-103] NOI Recompletion (C-103E)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	Notify the OCD inspection supervisor via email 24 Hours Prior to beginning operations.	4/8/2025
ward.rikala	Down Hole Commingle order is required prior to commingling of production.	4/8/2025
ward.rikala	All conducted logs shall be submitted to the OCD as a [UF-WL] EP Well Log Submission (WellLog).	4/8/2025
ward.rikala	A C-104 packet is required if, a pool is added, or perforations are added above or below existing perms.	4/8/2025