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

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-045-30816

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
ROSA UNIT

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number 167B

2. Name of Operator
LOGOS OPERATING, LLC

9. OGRID Number 289408

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

10. Pool name or Wildcat
BASIN DAKOTA/BLANCO MESAVERDE

4. Well Location
Unit Letter B : 955' feet from the NORTH line and 2205' feet from the EAST line
Section 08 T31N Township R06W Range NMPM SAN JUAN County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6219'

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:	☐		

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: 4510'-5772'
Basin Dakota: 7716'-7839'
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 commingle per order R-12991.

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 3/5/2025

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

For State Use Only

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

DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2025)

Rosa Unit 167B
30-045-30816
955' FNL & 2205' FEL
Section 08, T31N, R06W
San Juan County, New Mexico
LAT: 36.9187698° N LONG: -107.484726° W
Mesaverde/Dakota

PROJECT OBJECTIVE:

Remove packer, run gyro survey, and set a bridge plug 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 5898'. Trip out of hole with packer plucker assembly and string.
7. RU wireline to run gyro to 7838'.
8. Set bridge plug within 50' of the top Dakota perforation.
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 trip in hole to mill out the bridge plug(s) set above the Dakota perforations and push to bottom.
14. Run a single 2-3/8" production tubing string and install plunger lift.
15. Return to production as a Mesaverde/Dakota commingle.

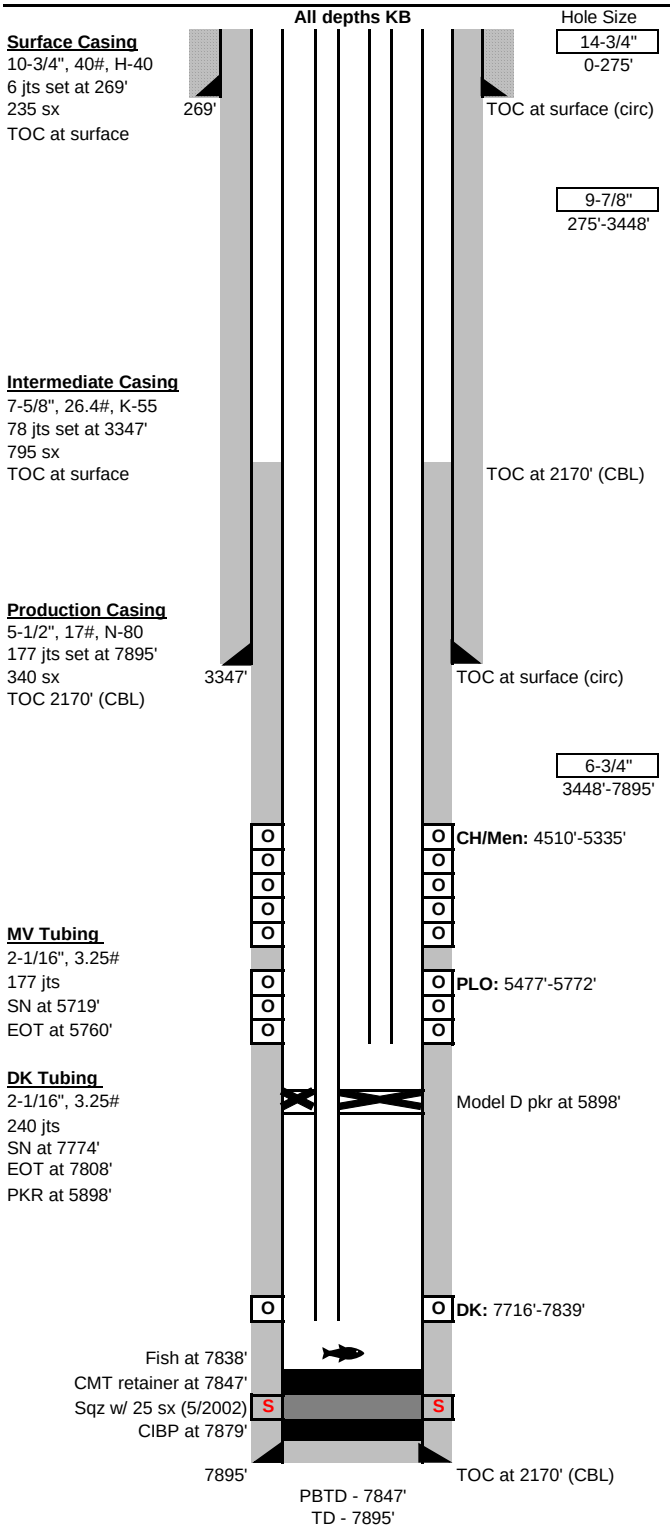
PRODUCTION ALLOCATION

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.

Wellbore Schematic

Well Name:	Rosa Unit 167B	Created By:	5/5/2022 Moss
Location:	Unit B Sec 08, T31N, R06W 955' FNL & 2205' FEL	Reviewed by:	5/13/2024 Peace
County:	San Juan, NM	Last Updated:	
API #:	30-045-30816	Spud Date:	11/15/2001
Co-ordinates:	Lat 36.9187698 Long -107.484726 NAD83	Completion Date:	5/23/2002
Elevations: GROUND:	6219'	Last Workover Date:	NA
KB:	6233'		
Depths (KB): PBTD:	7847'		
TD:	7895'		

VERTICAL WELLBORE



Surface Casing: (11/16/2001)
Drilled a 14-3/4" surface hole to 275'. Set 6 jts 10-3/4", 40#, H-40 csg at 269'.
Cmt w/ 235sx (14.5 ppg, 1.41 yld, 331 cf) Type III RMS cmt, circ 15 bbls to surface.

Intermediate Casing: (11/21/2001)
Drilled a 9-7/8" intermediate hole to 3448'. Set 78 jts 7-5/8", 26.4#, K-55 csg at 3347'.
Cmt lead w/ 560sx (1170 cf) Type III 65/35 Poz, tail w/ 235 sx (327 cf) Type III cmt.
Circ 25 bbls to surface.

Production Casing: (11/25/2001)
Drilled a 6-3/4" production hole to 7895'. Set 177 jts 5-1/2", 17#, N-80 csg at 7895'.
Cmt lead w/ 50 sx Type III 35/65 poz (11.5 ppg, 2.59 yld, 129 cf), cmt tail w/ 290 sx
Type III 35/65 poz (12.5 ppg, 1.99 yld, 547 cf). TOC at 2170' Per CBL (11/30/2001).
Intermittent bond 4210'-4334', 4450'-4988', 5516'-5962', 6364'-7182'
(5/2002) Identified csg leak 7852'-7879'. Set CIBP at 7879' & cmt retainer at 7847'.
Sqz'd w/ 25 sx Class H neat cmt. (15.5 ppg, 28 cf).

Tubing: MV (5/2002)	Length (ft)
KB	14
(176) 2-1/16", 3.25# tbg jts	5706
(1) 1.5" SN	1
(1) 2-1/16", 3.25# tbg jt	33
(1) perf sub	7
Set at:	5760 ft

Tubing: DK (5/2002)	Length (ft)
KB	14
(1) 2-1/16", 3.25# tbg jt	32
(1) 2-1/16" x 4' pup jt	4
(181) 2-1/16", 3.25# tbg jts	5849
(1) Model D pkr	6
(58) 2-1/16", 3.25# tbg jts	1870
(1) 1.5" SN	1
(1) 2-1/16", 3.25# tbg jt w/ MS end	33
Set at:	7808 ft

Artificial Lift:
NA

Perforations: (5/2002)
CH/Men: 4510'-5335'. 20, 0.38" holes.
4510', 91, 4973', 5097', 5115', 19, 21, 23, 52, 62, 64, 66, 68, 72, 76, 83, 5314', 16, 18, 5335'.
Acidized w/ 1000 gal 15% HCL. Frac w/ 80,000# 20/40 sand in 1932 bbls slickwater.
PLO: 5477'-5772'. 29, 0.38" holes.
5477', 82, 86, 90, 94, 98, 5502', 05, 07, 11, 13, 14, 16, 38, 46, 54, 67, 70, 5601', 09, 16, 27, 65, 68, 92, 97, 99, 5723', 5772'.
Acidize w/ 1000 gal 15% HCL. Frac w/ 80,000# 20/40 sand in 1820 bbls slickwater.
DK: 7716'-7839'. 24, 0.38" holes.
7716', 18, 20, 23, 25, 26, 29, 31, 62, 82, 84, 86, 88, 94, 96, 7822', 25, 26, 28, 30, 32, 35, 37, 7839'. Acidized w/ 500 gal 15% HCL.
Frac w/ 4500# 100 mesh & 90,000# 20/40 sand in 20Q foam.

Formations:

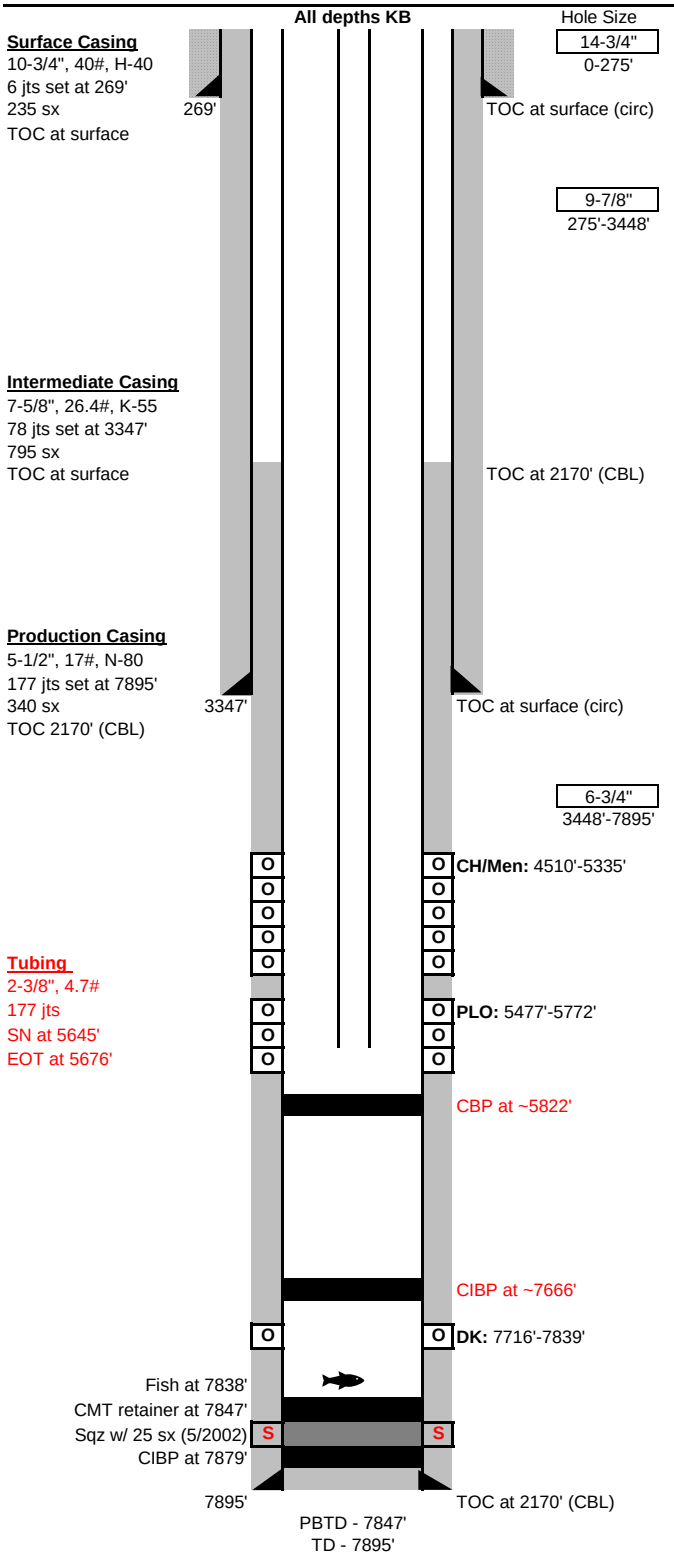
Ojo Alamo	2161'	Point Lookout	5475'
Kirtland	2286'	Mancos	5811'
Pictured Cliffs	3006'	Gallup	6826'
Cliff House	5200'	Greenhorn	7533'
Menefee	5246'	Dakota	7715'

Additional Notes:
11/2001 Drilled & cmt'd well. Did not complete well at this time.
05/2002 Isolated csg leak 7852'-7879'. Set CIBP at 7879' & cmt retainer at 7847'.
Sqz'd w/ 25 sx Class H neat cmt. Perf'd & stim'd wellbore. Lost 1st pkr downhole,
TOF at 7838'. Landed MV tbg at 5761' & DK tbg at 7809' w/ 2nd model D pkr at 5893'. *(Tbg tally is a bit off & uses 16' KB).*

Proposed Wellbore Isolation Schematic

Well Name:	Rosa Unit 167B	Created By:	5/5/2022 Moss
Location:	Unit B Sec 08, T31N, R06W 955' FNL & 2205' FEL	Reviewed by:	5/13/2024 Peace
County:	San Juan, NM	Last Updated:	
API #:	30-045-30816	Spud Date:	11/15/2001
Co-ordinates:	Lat 36.9187698 Long -107.484726 NAD83	Completion Date:	5/23/2002
Elevations: GROUND:	6219'	Last Workover Date:	NA
KB:	6233'		
Depths (KB): PBTD:	7847'		
TD:	7895'		

VERTICAL WELLBORE



Surface Casing: (11/16/2001)
Drilled a 14-3/4" surface hole to 275'. Set 6 jts 10-3/4", 40#, H-40 csg at 269'.
Cmt w/ 235sx (14.5 ppg, 1.41 yld, 331 cf) Type III RMS cmt, circ 15 bbls to surface.

Intermediate Casing: (11/21/2001)
Drilled a 9-7/8" intermediate hole to 3448'. Set 78 jts 7-5/8", 26.4#, K-55 csg at 3347'.
Cmt lead w/ 560sx (1170 cf) Type III 65/35 Poz, tail w/ 235 sx (327 cf) Type III cmt.
Circ 25 bbls to surface.

Production Casing: (11/25/2001)
Drilled a 6-3/4" production hole to 7895'. Set 177 jts 5-1/2", 17#, N-80 csg at 7895'.
Cmt lead w/ 50 sx Type III 35/65 poz (11.5 ppg, 2.59 yld, 129 cf), cmt tail w/ 290 sx
Type III 35/65 poz (12.5 ppg, 1.99 yld, 547 cf). TOC at 2170' Per CBL (11/30/2001).
Intermittent bond 4210'-4334', 4450'-4988', 5516'-5962', 6364'-7182'
(5/2002) Identified csg leak 7852'-7879'. Set CIBP at 7879' & cmt retainer at 7847'.
Sqz'd w/ 25 sx Class H neat cmt. (15.5 ppg, 28 cf).

Tubing:	Length (ft)
KB	14
(176) 2-1/16", 3.25# tbg jts	5624
(1) 2-1/16" marker joint	4
(1) 2-1/16", 3.25# tbg jt	32
(1) 1.5" SN	1
(1) MS collar w/ exp check	1
Set at:	5676 ft

Artificial Lift:
NA

Perforations: (5/2002)
CH/Men: 4510'-5335'. 20, 0.38" holes.
4510', 91, 4973', 5097', 5115', 19, 21, 23, 52, 62, 64, 66, 68, 72, 76, 83, 5314', 16, 18, 5335'.
Acidized w/ 1000 gal 15% HCL. Frac w/ 80,000# 20/40 sand in 1932 bbls slickwater.
PLO: 5477'-5772'. 29, 0.38" holes.
5477', 82, 86, 90, 94, 98, 5502', 05, 07, 11, 13, 14, 16, 38, 46, 54, 67, 70, 5601', 09, 16, 27, 65, 68, 92, 97, 99, 5723', 5772'.
Acidize w/ 1000 gal 15% HCL. Frac w/ 80,000# 20/40 sand in 1820 bbls slickwater.
DK: 7716'-7839'. 24, 0.38" holes.
7716', 18, 20, 23, 25, 26, 29, 31, 62, 82, 84, 86, 88, 94, 96, 7822', 25, 26, 28, 30, 32, 35, 37, 7839'. Acidized w/ 500 gal 15% HCL.
Frac w/ 4500# 100 mesh & 90,000# 20/40 sand in 20Q foam.

Formations:

Ojo Alamo	2161'	Point Lookout	5475'
Kirtland	2286'	Mancos	5811'
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Cliff House	5200'	Greenhorn	7533'
Menefee	5246'	Dakota	7715'

Additional Notes:
11/2001 Drilled & cmt'd well. Did not complete well at this time.
05/2002 Isolated csg leak 7852'-7879'. Set CIBP at 7879' & cmt retainer at 7847'.
Sqz'd w/ 25 sx Class H neat cmt. Perf'd & stim'd wellbore. Lost 1st pkr downhole, TOF at 7838'. Landed MV tbg at 5761' & DK tbg at 7809' w/ 2nd model D pkr at 5893'. *(Tbg tally is a bit off & uses 16' KB).*

Proposed Commingle Wellbore Schematic

Well Name:	Rosa Unit 167B	Created By:	5/5/2022 Moss
Location:	Unit B Sec 08, T31N, R06W 955' FNL & 2205' FEL	Reviewed by:	5/13/2024 Peace
County:	San Juan, NM	Last Updated:	
API #:	30-045-30816	Spud Date:	11/15/2001
Co-ordinates:	Lat 36.9187698 Long -107.484726 NAD83	Completion Date:	5/23/2002
Elevations: GROUND:	6219'	Last Workover Date:	NA
KB:	6233'		
Depths (KB): PBTD:	7847'		
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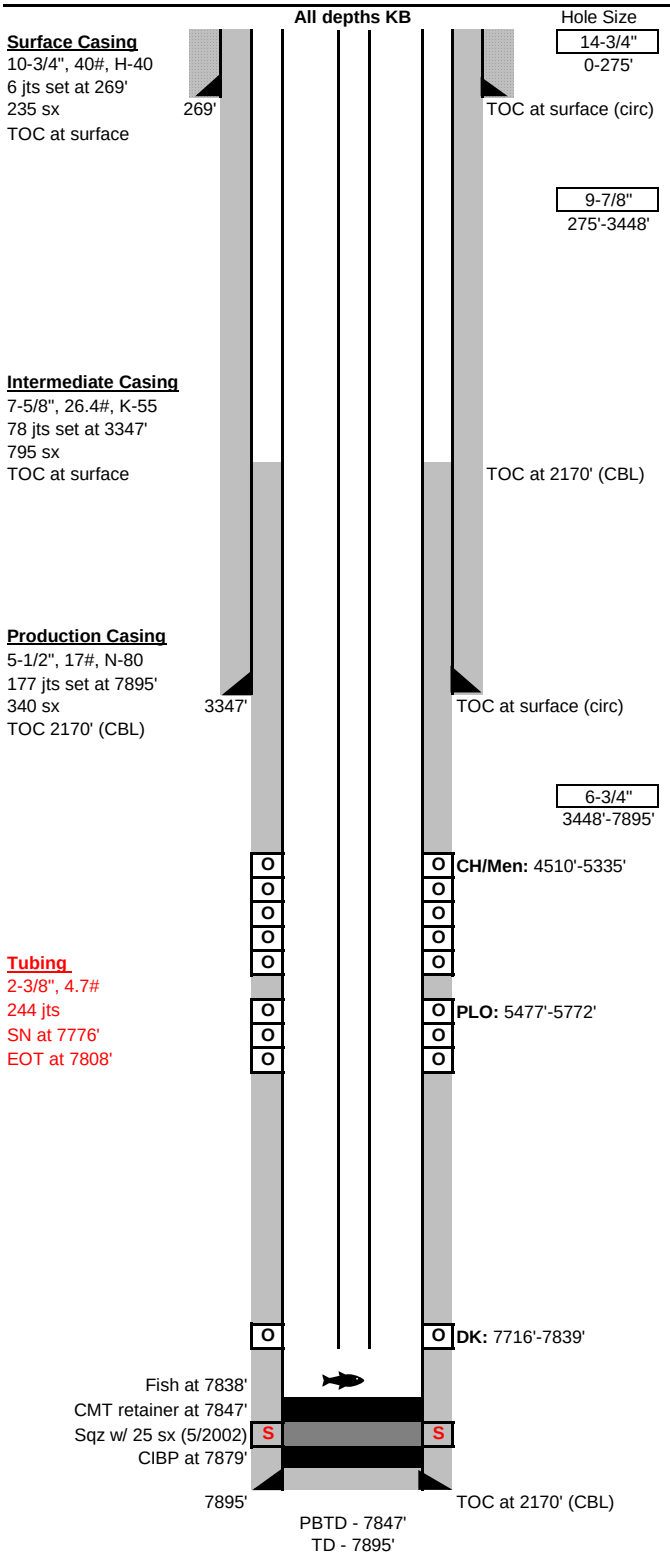
VERTICAL WELLBORE



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Cmt w/ 235sx (14.5 ppg, 1.41 yld, 331 cf) Type III RMS cmt, circ 15 bbls to surface.

Intermediate Casing: (11/21/2001)
Drilled a 9-7/8" intermediate hole to 3448'. Set 78 jts 7-5/8", 26.4#, K-55 csg at 3347'.
Cmt lead w/ 560sx (1170 cf) Type III 65/35 Poz, tail w/ 235 sx (327 cf) Type III cmt.
Circ 25 bbls to surface.

Production Casing: (11/25/2001)
Drilled a 6-3/4" production hole to 7895'. Set 177 jts 5-1/2", 17#, N-80 csg at 7895'.
Cmt lead w/ 50 sx Type III 35/65 poz (11.5 ppg, 2.59 yld, 129 cf), cmt tail w/ 290 sx
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Sqz'd w/ 25 sx Class H neat cmt. (15.5 ppg, 28 cf).

Tubing:	Length (ft)
KB	14
(243) 2-3/8", 4.7# tbg jts	7758
(1) 2-3/8" marker joint	4
(1) 2-3/8", 4.7# tbg jt	32
(1) 1.78" SN	1
(1) MS collar w/ exp check	1
Set at:	7808 ft

Artificial Lift:
NA

Perforations: (5/2002)
CH/Men: 4510'-5335'. 20, 0.38" holes.
4510', 91, 4973', 5097', 5115', 19, 21, 23, 52, 62, 64, 66, 68, 72, 76, 83, 5314', 16, 18, 5335'.
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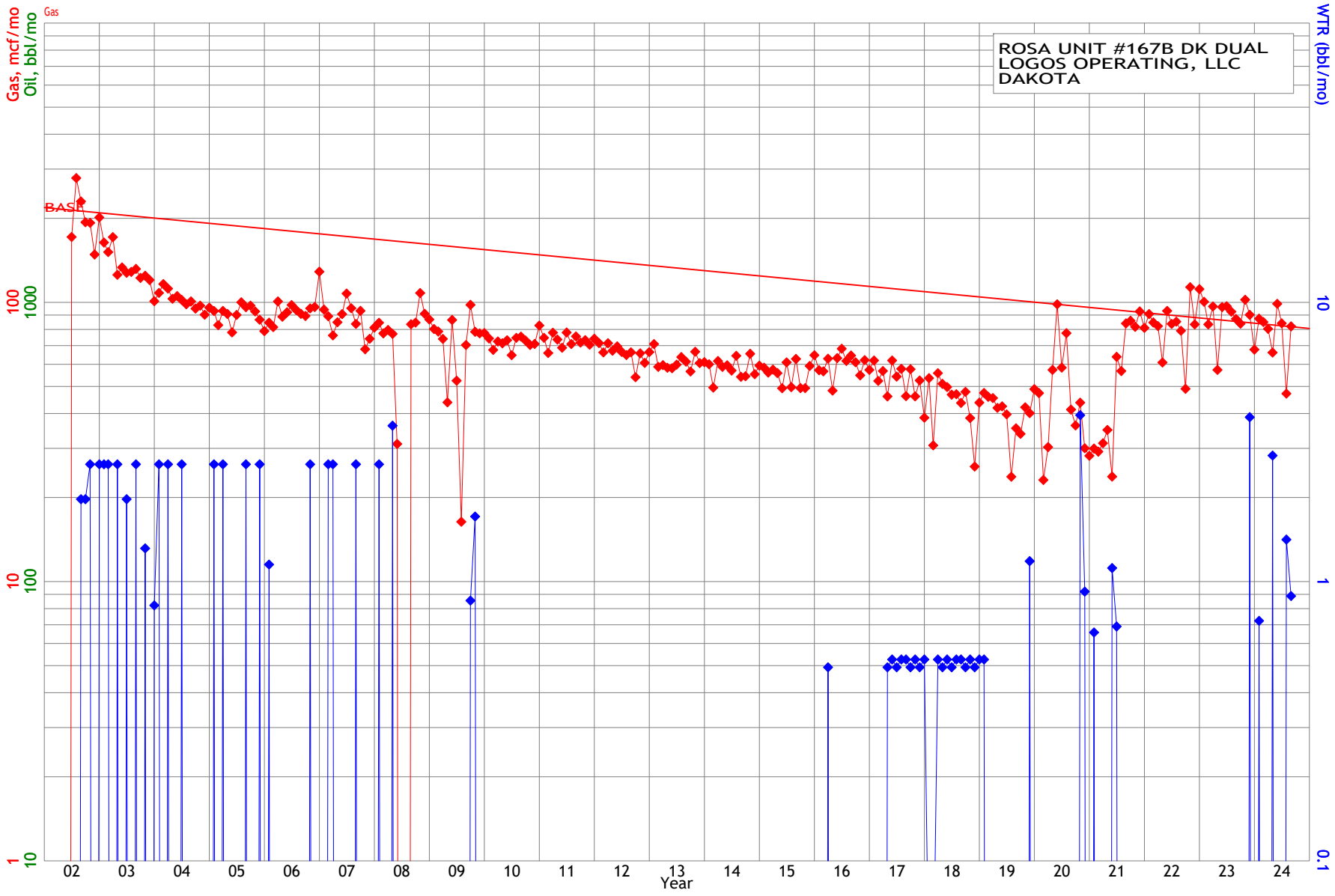
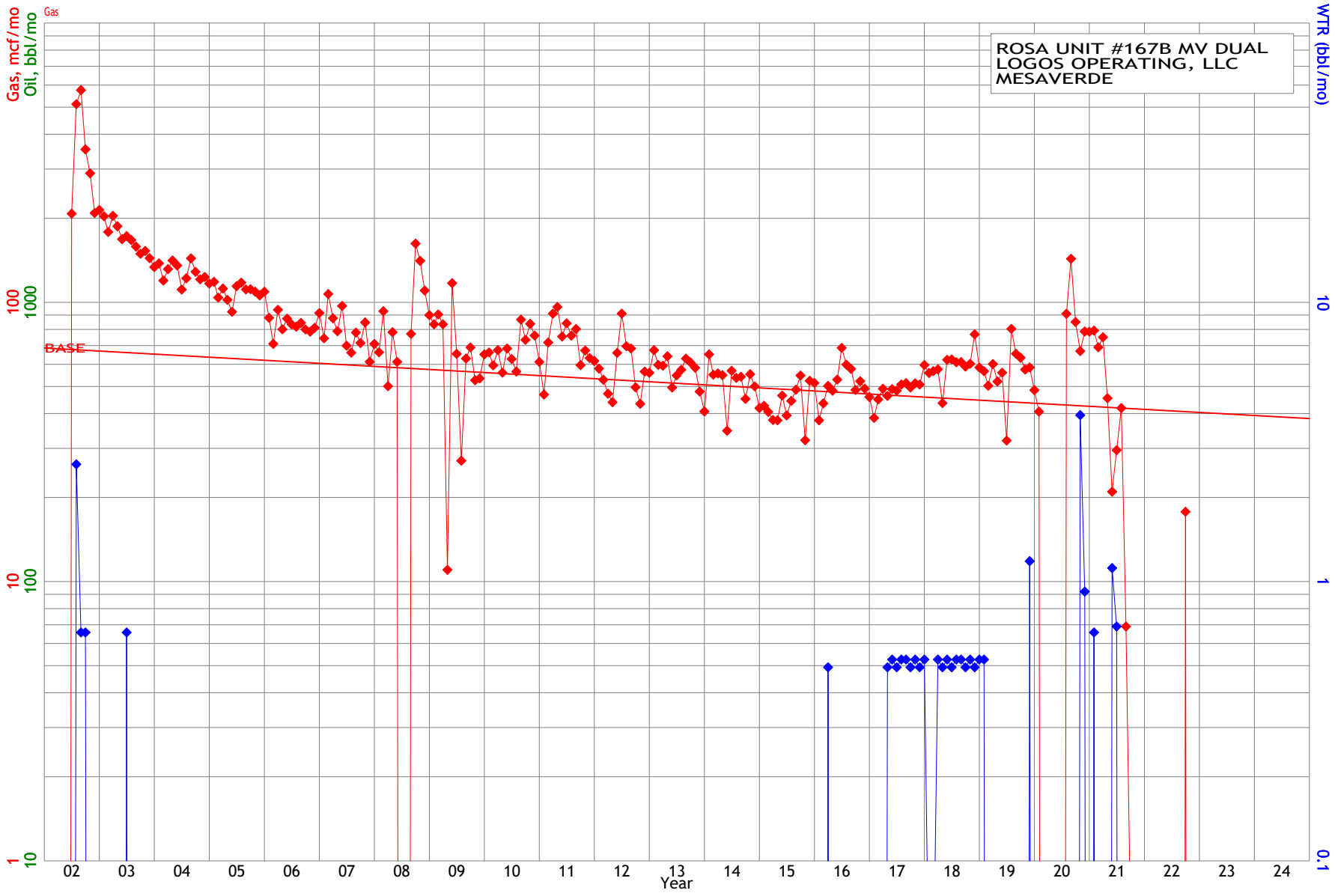


Gas, mcf/mo		Oil, bbl/mo		WTR (bbl/mo)	
Qual=	BASE	Ref=	9/2024	Ref=	9/2024
Ref=	9/2024	Cum=	0	Cum=	2792
Cum=	611933				
Rem=	679878				
EUR=	1291811				
Yrs=	100.000				
Qi=	81.8				
b=	0.000000				
De=	4.241778				
Qab=	1.1				



Gas, mcf/mo		Oil, bbl/mo		WTR (bbl/mo)	
Qual=	BASE	Ref=	9/2024	Ref=	9/2024
Ref=	9/2024	Cum=	0	Cum=	728
Cum=	568125				
Rem=	511042				
EUR=	1079167				
Yrs=	98.083				
Qi=	38.7				
b=	0.000000				
De=	2.499506				
Qab=	3.2				

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

Operator:	OGRID:
LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	289408
	Action Number: 443867
	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 perfs.	4/8/2025