

Submit a 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 Resources

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

DHC-5319

Form C-103  
 Revised July 18, 2013

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. <b>30-039-23265</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator <b>LOGOS OPERATING LLC</b>		6. State Oil & Gas Lease No. <b>NMSF078771</b>
3. Address of Operator <b>2010 AFTON PLACE, FARMINGTON, NM 87401</b>		7. Lease Name or Unit Agreement Name <b>ROSA UNIT</b>
4. Well Location Unit Letter <u>L</u> : <u>1840</u> feet from the <u>S</u> line and <u>790</u> feet from the <u>W</u> line Section <u>23</u> Township <u>31N</u> Range <u>6W</u> NMPM <u>NWSW</u> County <u>RIO ARRIBA</u>		8. Well Number <b>098</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>GL: 6267</b>		9. OGRID Number <b>289408</b>
		10. Pool name or Wildcat <b>MANCOS/DAKOTA</b>

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.

Pre-approved Pool Division Order R-13122.

Pools to be commingled: Basin Mancos (97232) and Basin Dakota (71599)

Perforated Intervals:

Basin Mancos: 6310' - 7592'

Basin Dakota: 7779' - 7921'

Fixed percentage allocation based upon production date 15% Basin Mancos and 85% Basin Dakota. This is based upon the historic production of both the Basin Mancos and Basin Dakota production zones within the well.

Commingling will not reduce the value of reserves.

Interest owners in the spacing unit have not been notified of the intent of the downhole commingle per order R-12991. BLM has been notified on sundry notice form 3160-5, 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 Dacye Shull TITLE Regulatory Technician DATE 07/31/2023

Type or print name Dacye Shull E-mail address: dshull@logosresourcesllc.com PHONE: (505) 787-2027

**For State Use Only**

APPROVED BY: Dean R. McAllure TITLE Petroleum Engineer DATE 08/25/2023

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. **NMSF078771**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. 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 23/T31N/R6W/NMP**7. If Unit of CA/Agreement, Name and/or No.  
**ROSA UNIT, ROSA UNIT--DK/NMNM78407B, NMNM78**8. Well Name and No. **ROSA UNIT/98**9. API Well No. **3003923265**10. Field and Pool or Exploratory Area  
**BLANCO/Blanco Mesaverde**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	
	<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 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 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 determined that the site is ready for final inspection.)

LOGOS Operating request to conduct a wellbore isolation for subject well due to nearby PAD 29 completions. Once offset completions are complete, LOGOS will mill out the bridge plug and downhole commingle the Basin Mancos and Basin Dakota per the attached procedure.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**DACYE SHULL / Ph: (505) 324-4145**

Title **REGULATORY TECH**

Signature

*Dacye Shull*

Date

**07/28/2023****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**MATTHEW H KADE / Ph: (505) 564-7736 / Approved**Title **Petroleum Engineer**Date **07/28/2023**

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 **FARMINGTON**

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)



## DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2023)

**Rosa Unit 98**  
**30-039-23265**  
**1840' FSL & 790' FWL**  
**Section 23, T31N, R06W**  
**Rio Arriba, New Mexico**  
**LAT: 36.8829536° N LONG: -107.4384918° W**  
**Mancos/Dakota**

### **PROJECT OBJECTIVE:**

Remove packer and set a bridge plug above the Mancos perforations and load the hole to protect the wellbore during offset completions. Once offset completions are complete, mill the bridge plug and downhole commingle Mancos 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. Pull tubing and packer out of hole and lay tubing down.
5. Set bridge plug within 50' of the Mancos perforations and load the hole with KCL water. SI well for offset completions.
6. Once offset completions are complete, trip in hole and mill the bridge plug.
7. Run in hole with single 2-3/8" production tubing string.
8. Return to production as a Mancos/Dakota commingle.

### **PRODUCTION ALLOCATION**

Historic production data from both zones in this well was gathered and analyzed. Cumulative production is not an applicable allocation method in this case; therefore, production rates were used to determine production allocation.

Total Gas Production Rate	117 Mcfd
MC Gas Production Rate	17 Mcfd
DK Gas Production Rate	100 Mcfd

MC allocation = MC rate/total rate =  $17/117 = 15\%$

DK allocation = DK rate/total rate =  $100/117 = 85\%$

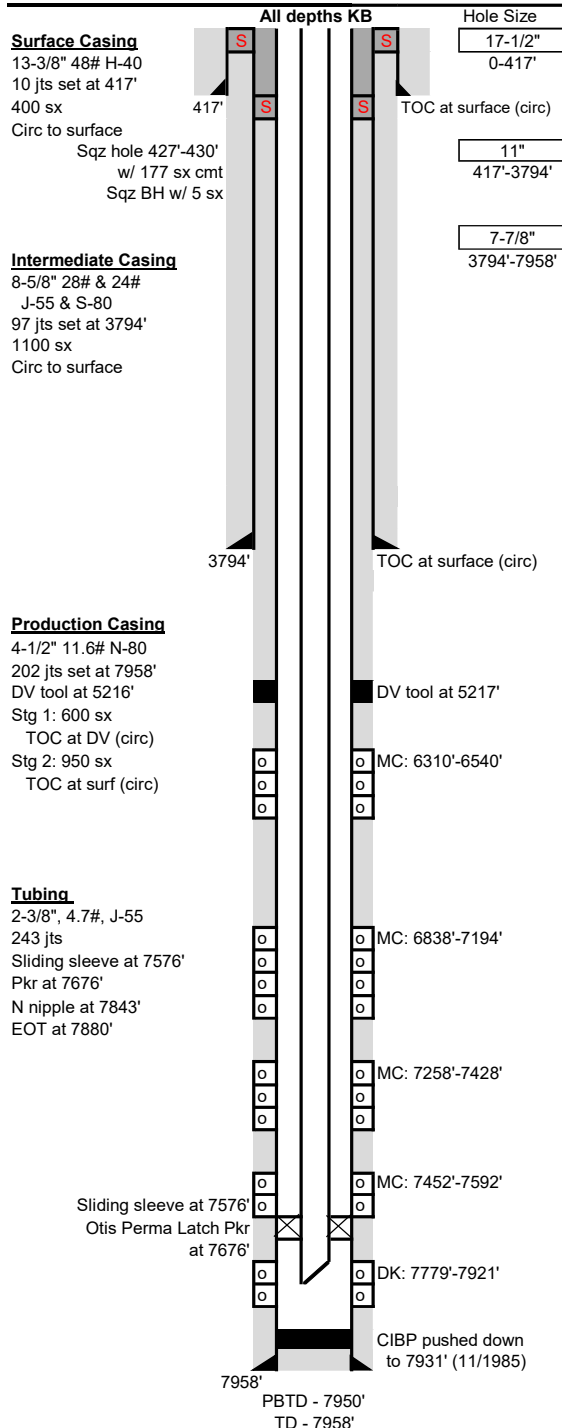


## Wellbore Schematic

Well Name: Rosa Unit 098  
 Location: L-23-31N-06W 1840' FSL & 790' FWL  
 County: Rio Arriba, NM  
 API #: 30-039-23265  
 Co-ordinates: Lat 36.8829536, Long -107.4384918 NAD1983  
 Elevations: GROUND: 6267'  
 KB: 6279'  
 Depths (KB): PBD: 7950'  
 TD: 7958'

Date Prepared: 7/10/2023 Moss  
 Reviewed By: 7/11/2023 Peace  
 Last Updated:  
 Spud Date: 9/13/1983  
 Completion Date: 12/21/1983  
 Last Workover Date: 11/15/1985

## VERTICAL WELLBORE



## Surface Casing: (9/14/1983)

Drilled a 17-1/2" surface hole to 417'. Set 10 jts 13-3/8", 48#, H-40 csg at 417'.  
 Cmt'd w/ 400 sx Class B cmt (480 ft3, 15.6 ppg). Circ 20 bbls cmt to surface.

## Intermediate Casing: (10/5/1983)

Drilled an 11" intermediate hole to 3794'. Set 97 jts 8-5/8" csg at 3794'. (15 jts 28# J-55, 70 jts 24# J-55, 12 jts 28# S-80). Cmt'd w/ 300 sx Class B 65/35 poz w/ 6% gel (12.2 ppg). Tailed w/ 600 sx Class B 50/50 poz w/ 6% gel (13.3 ppg) & 200 sx Class B cmt (15.6 ppg). Circ 40 bbls to surface.

## Production Casing: (10/25/1983)

Drilled a 7-7/8" production hole to 7958'. Set 202 jts 4-1/2", 11.6#, N-80 csg at 7958'.  
 DV tool at 5217'. Cmt stg 1 w/ 500 sx Class B 50/50 poz cmt (13.3 ppg) followed by 100 sx Class B neat cmt (15.6 ppg). Circ 20 bbls. Cmt'd Stg 2 w/ 850 sx Class B 65/35 poz cmt (12.2 ppg) followed by 100 sx Class B neat (15.6 ppg) cmt. Circ 20 bbls to surf.  
 11/1985: Identified csg hole from 427'-430'. Sqz'd w/ 120 sx (140 ft3) Class B cmt, circ to surf.  
 Hesitation sqz w/ another 57 sx (67ft). BH wouldn't hold pressure so sqz'd w/ 5 sx (5.9 ft3) cmt.

## Tubing: (11/1985)

KB	Length (ft)
KB	12
(234) 2-3/8" 4.7# J-55 8rd tbq jts	7564
(1) Sliding Sleeve - X profile at 7576'	3
(3) 2-3/8" 4.7#, J-55 8rd tbq jts	97
(1) Otis Perma Latch Packer at 7676'	6
(5) 2-3/8" 4.7#, J-55 8rd tbq jts	162
(1) 1.79" N Nipple at 7843'	1
(1) 2-3/8" 4.7#, J-55 8rd tbq jt	32
(1) MS collar w/ exp check	4
Set at:	7880 ft

## Artificial Lift:

NA

## Perforations: (12/1983)

**DK: (7779'-7921):** 2 SP2F, 80, 0.38" holes. 7779'-7797', 7827'-7838', 7868'-7872', & 7914'-7921'.  
 Frac w/ 205,000# 20/40 sand in 95,000 gal 50# x-link gel  
**MC: (7452'-7592):** 1 SP2F, 140, 0.38" holes. Frac'd this zone multiple times.  
 1st frac: H2O frac w/ 50,000 gal 30# x-link gel.  
 2nd frac: 32,680# of 20/40 sand in 26,340 gal 30# gel. Screened out at 6200 psi.  
**MC: (7258'-7428')** 1 SP2F, 86, 0.38" holes.  
 Frac w/ 65,000# 20/40 sand in 95,000 gal 50# x-link gel.  
**MC: (6838'-7194')** 1 SP2F, 108, 0.39" holes. 6838'-6862', 6864'-6886', 6888'-6910', 6912'-6934', 6936'-6958', 6960'-6982', 6983'-7003', 7010'-7026', 7028'-7050', 7052'-7074' & at 1 SP2F, 55, 0.29" holes. 7076'-7098', 7100'-7122', 7124'-7146', 7148'-7170', & 7172'-7194'.  
 Frac w/ 150,000# 20-40 sand in 165,000 gal 50# x-link gel.  
**MC: (6310'-6540')** 1 SP2F, 105, 0.39" holes. 6310'-6324', 6326'-6348', 6350'-6372', 6374'-6396', 6398'-6416', 6420'-6444', 6446'-6468', 6470'-6492', 6494'-6516', 6518'-6540'.  
 Frac w/ 64,000# 20/40 sand in 89,572 gal 50# x-link gel.

## Formations:

Pictured Cliffs	3100'	Greenhorn	7592'
Mesaverde	5277'	Dakota	7823'
Gallup	6310'		

## Additional Notes:

12/1983 Initial completion. Perf'd & stim'd MC & DK. CO to PBD 7950'. Set pkr at 7691' & sliding sleeve at 7590'-7593'. Single 2-3/8" tbq string landed at 7929'.  
 11/1985 Csg Repair. Couldn't release packer at 7691'. Chem cut tbq at 6566'. Jarred pkr free w/ 62k # & pull fish consisting of tbq, sliding sleeve, & pkr. Set BP at 6184' & isolated csg holes between 427'-430'. Sqz w/ 177 sx cmt. DO cmt & PT csg to 1050 psig, held. PT BH to 550 psig, pressured up immediately. Sqz'd BH w/ 5 sx cmt. PT csg again to 2200#, held. PT BH to 400#, held. DO BP & pushed down to 7931'. Ran 2-3/8" tbq w/ pkr & sliding sleeve. EOT at 7880'.

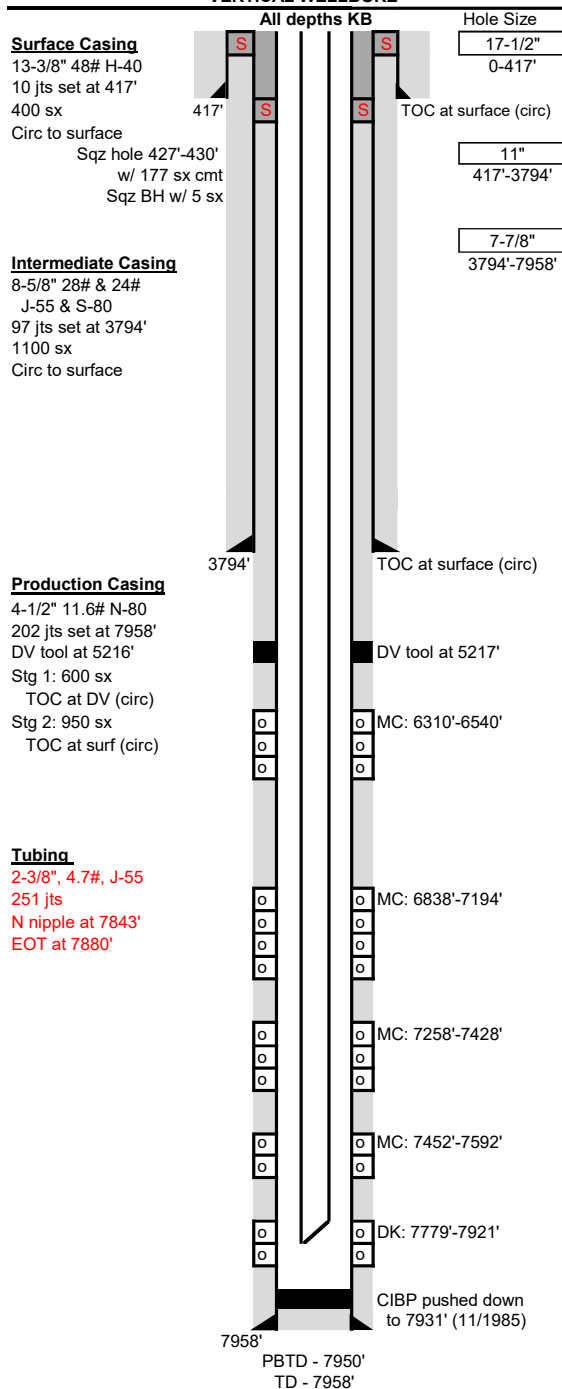


## Proposed Wellbore

Well Name: Rosa Unit 098  
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 API #: 30-039-23265  
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 Depths (KB): PBTD: 7950'  
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Date Prepared: 7/10/2023 Moss  
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 Hesitation sqz w/ another 57 sx (67ft). BH wouldn't hold pressure so sqz'd w/ 5 sx (5.9 ft3) cmt.

Tubing:	Length (ft)
KB	12
(249) 2-3/8" 4.7# J-55 8rd tbq jts	7803
(1) 2-3/8" x 2' pup jt (marker jt)	2
(1) 2-3/8" 4.7# J-55 tbq jt	31
(1) 1.79" N Nipple at 7843'	1
(1) 2-3/8" tbq jt w/ 1/2 MS w/ exp check	31
Set at:	7880 ft

**Artificial Lift:**  
 NA

**Perforations:** (12/1983)  
**DK: (7779'-7921'):** 2 SPF, 80, 0.38" holes. 7779'-7797', 7827'-7838', 7868'-7872', & 7914'-7921'.  
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**MC: (7258'-7428'):** 1 SP2F, 86, 0.38" holes.  
 Frac w/ 65,000# 20/40 sand in 95,000 gal 50# x-link gel.  
**MC: (6838'-7194'):** 1 SP2F, 108, 0.39" holes. 6838'-6862', 6864'-6886', 6888'-6910', 6912'-6934'  
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 0.29" holes. 7076'-7098', 7100'-7122', 7124'-7146', 7148'-7170', & 7172'-7194'.  
 Frac w/ 150,000# 20-40 sand in 165,000 gal 50# x-link gel.  
**MC: (6310'-6540'):** 1 SP2F, 105, 0.39" holes. 6310'-6324', 6326'-6348', 6350'-6372',  
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 Frac w/ 64,000# 20/40 sand in 89,572 gal 50# x-link gel.

Formations:	MD
Pictured Cliffs	3100'
Mesaverde	5277'
Gallup	6310'

**Additional Notes:**  
**12/1983** Initial completion. Perf'd & stim'd MC & DK. CO to PBTD 7950'. Set pkr at 7691'  
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 pressured up immediately. Sqz'd BH w/ 5 sx cmt. PT csg again to 2200#, held. PT BH to 400#,  
 held. DO BP & pushed down to 7931'. Ran 2-3/8" tbq w/ pkr & sliding sleeve. EOT at 7880'.



Gas, mcf/mo	Oil, bbl/mo	Water, bbl/mo
Qual= BASE	Ref= 1/2023	Ref= 1/2023
Cum= 121638	Cum= 0	Cum= 92
Rem= 123350		
EUR= 244988		
Yrs= 85.083		
Qs= 15.7		
b= 0.000000		
De= 4.444900		
Qab= 0.3		





Gas, mcf/mo	Oil, bbl/mo	Water, bbl/m
Qual= BASE	Ref= 1/2023	Ref= 1/2023
Ref= 1/2023	Cum= 0	Cum= 2586
Cum= 3218195		
Rem= 937761		
EUR= 4155956		
Yrs= 98.833		
Qi= 62.3		
b= 0.000000		
De= 2.999409		
Qab= 4.1		



**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 246036

**CONDITIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 246036
	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.	8/25/2023
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.	8/25/2023
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.	8/25/2023