

State of New Mexico
Energy, Minerals and Natural Resources

DHC - 5438

Form C-103 Page 1 of 11

Revised July 18, 2013

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

ACTION ID NO. 389297

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 <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		WELL API NO. 30-039-30244
2. Name of Operator LOGOS OPERATING, LLC		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator 2010 Afton Place Farmington, NM 87401		6. State Oil & Gas Lease No. NMSF078764
4. Well Location Unit Letter <u>B</u> : <u>990'</u> feet from the <u>FNL</u> line and <u>1330'</u> feet from the <u>FEL</u> line Section <u>18</u> Township <u>31N</u> Range <u>5W</u> NMPM Rio Arriba County		7. Lease Name or Unit Agreement Name ROSA UNIT
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6465'		8. Well Number 22B 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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☒
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 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.

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 5422' – 6319'
 Basin Dakota 8208' – 8282'
4. Fixed percentage allocation (69%) Blanco Mesaverde and (31%) 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 II DATE 10/01/2024

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 10/23/24

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.

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
ROSA UNIT	22B	300393024400D1	NMSF078764	NMSF078764	LOGOS
ROSA UNIT	22B	300393024400D2	NMSF078764	NMNM78407A	LOGOS

Notice of Intent

Sundry ID: 2814722

Type of Submission: Notice of Intent

Date Sundry Submitted: 10/01/2024

Date proposed operation will begin: 10/01/2024

Type of Action: Commingling (Subsurface)

Time Sundry Submitted: 12:36

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_22B_Downhole_Commingling_20241001_20241002101828.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:** OCT 02, 2024 10:19 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:** KENNETH G RENNICK**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5055647742**BLM POC Email Address:** krennick@blm.gov**Disposition:** Approved**Disposition Date:** 10/02/2024**Signature:** Kenneth Rennick



DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2024)

Rosa Unit 022B
30-039-30244
990' FNL & 1330' FEL
Section 18, T31N, R05W
Rio Arriba, New Mexico
LAT: 36.9039841° N LONG: -107.3992615° W
Mesaverde/Dakota

PROJECT OBJECTIVE:

Remove packer 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 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 Weatherford Model D Packer at 6365'. Trip out of hole with packer plucker assembly and string.
7. Run in hole with 2-3/8" production tubing string and install plunger lift.
8. Return to production as a Mesaverde/Dakota commingle.

PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Historical and forecasted rates were used to determine allocations due to a failure that impacted production potential and cumulative allocation accuracy.

Production Rates

Total Production Rate	75 Mcfpd
Mesaverde Production Rate	52 Mcfpd
Dakota Production Rate	23 Mcfpd

MV allocation= MV rate/total rate= 69%

DK allocation= DK rate/ total rate= 31%

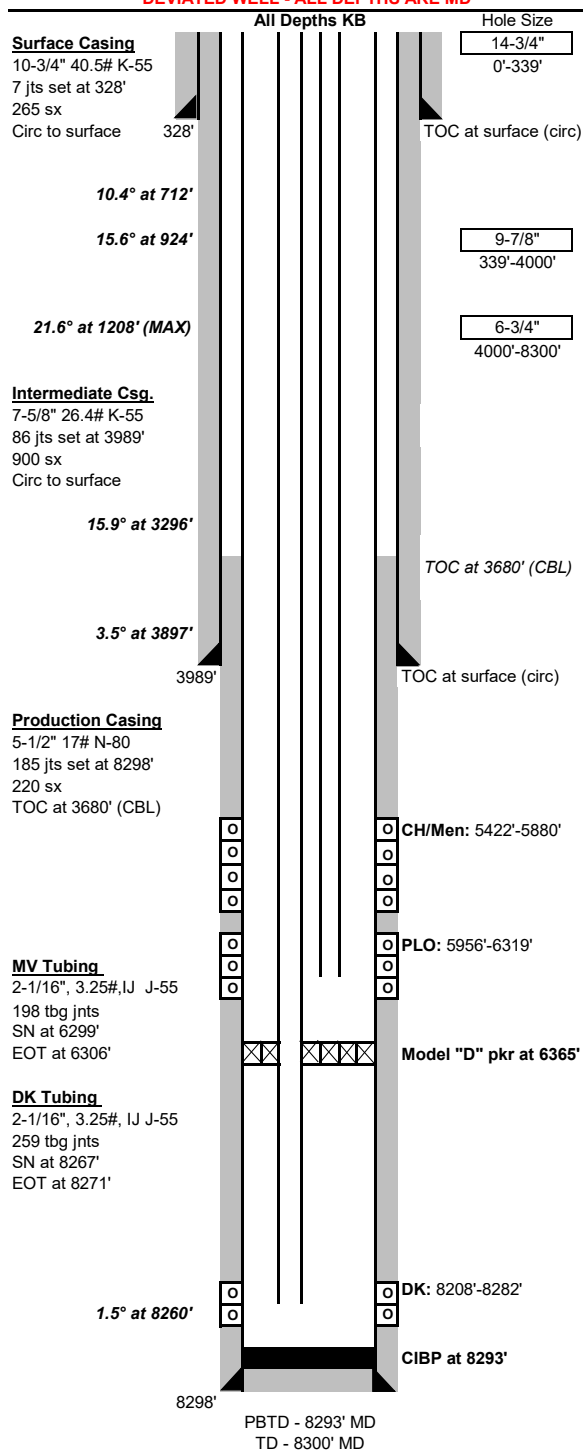


Wellbore Schematic

Well Name: Rosa Unit 22B
 Location: Unit B, Sec 18, T31N, R05W 990' FNL & 1330' FEL
 County: Rio Arriba, NM
 API #: 30-039-30244
 Co-ordinates: Lat 36.9039841°, -107.3992615° NAD 83
 Elevations: GROUND: 6465'
 KB: 6479'
 Depths (KB): PBTD: 8293'
 TD: 8300'

Date Prepared: 12/1/2020 Hespe
 Last Updated: 8/19/2024 Moss
 Reviewed By:
 Spud Date: 10/10/2007
 Completion Date: 12/2/2007
 Last Workover Date: NA

DEVIATED WELL - ALL DEPTHS ARE MD

**Surface Casing: (10/10/2007)**

Drilled 14-3/4" surface hole to 339'. Set 7 jts 10-3/4" 40.5# K-55 csg at 328'.
 Cmt w/ 265 sx Type III cmt (371 ft3, 14.5 ppg, 1.4 yld). Circ 25 bbls cmt to surface.

Intermediate Casing: (10/23/2007)

Drilled 9-7/8" intermediate hole to 4000'. Set 86 jts 7-5/8" 26.4# K-55 csg at 3989'.
 Cmt lead w/ 800 sx Prem Lite cmt (1680 ft3, 12.1 ppg, 2.1 yld). Tail w/ 100 sx Type III cmt (140 ft3, 14.5 ppg, 1.4 yld). Circ 70 bbls cmt to surface.

Production Casing: (10/25/2007)

Drilled 6-3/4" production hole to 8300'. Set 185 jts 5-1/2" 17# N-80 csg at 8298'.
 Cmt w/ 220 sx Prem Lite cmt (462 ft3, 12.3 ppg, 2.1 yld). TOC at 3680' (CBL - 2007)
 During completion, milled to 8295' & csg wouldn't hold pressure. Set CIBP at 8293'.

Tubing: MV (12/02/2007)

	Length (ft)
KB	14
(198) 2-1/16", 3.25# IJ thrd J-55 tbj jnts	6285
(1) SN (1.5" w/ PO - CHK)	0.5
(1) Perf'd orange peel pup jnt	6

Set at: 6306 ft

Tubing: DK (12/01/2007)

	Length (ft)
KB	14
(200) 2-1/16", 3.25# IJ J-55 tbj jnts	6340
(1) Seal bore assembly (2.688")	5
(59) 2-1/16", 3.25# IJ J-55 tbj jnts	1908
(1) SN (1.5")	0.5
(1) MS collar	4

Set at: 8271 ft

Perforations: (11/2007)

Cliffhouse/Menefee: (5422'-5880') 57 holes, 0.34"
 5422', 24, 78, 82, 94, 98, 5502', 13, 24, 34, 42, 50, 56, 60, 67, 74, 84, 97, 5601', 08,
 14, 20, 25, 28, 38, 52, 62, 71, 81, 87, 96, 99, 5704', 07, 10, 14, 20, 25, 30, 35, 42,
 50, 54, 58, 62, 66, 70, 76, 86, 90, 96, 5800', 04, 08, 74, 77, 5880'.
 Frac w/ 9,900# 14/30 LiteProp 125 & 2,000# 20/40 sand in 2339 bbls slickwater.

Point Lookout: (5956'-6319') 55 holes, 0.34", 1 SPF, 21.42" pent

5956', 60, 64, 68, 72, 76, 80, 84, 90, 96, 6004', 08, 12, 18, 26, 32, 38, 44, 51, 58,
 62, 68, 74, 80, 86, 92, 99, 6106', 18, 23, 28, 37, 45, 53, 59, 65, 73, 80, 86, 96, 6208',
 14, 20, 26, 34, 38, 46, 52, 58, 69, 79, 88, 92, 6310', 6319'.
 Frac w/ 9,900# 14/30 LiteProp 125 & 2,000# 20/40 sand in 2255 bbls slickwater.

Dakota: (8208'-8282') 51 holes, 0.34" holes, 3 SPF, 21.42" pent

8208', 11, 15, 18, 22, 26, 32, 38, 44, 52, 57, 61, 66, 70, 74, 78, 8282'.
 Frac w/ 9,900# LiteProp 108 & 3,000# SB-Excel in 2484 bbls slickwater.

Formations:

Pictured Cliffs-	3671'	Point Lookout	5955'
Lewis-	3792'	Mancos-	6462'
Cliffhouse	5694'	Dakota-	8206'
Menefee	5743'		

Additional Notes:

Weatherford 5-1/2" 17# Model D Packer set at 6365' w/ 8,000# compression

Max deviation 21.6° at 1208'. Max DLS 5.9 (°/100') at 591'.

There is no record of any workovers since completion.



Proposed Wellbore Schematic

Well Name:	Rosa Unit 22B
Location:	Unit B, Sec 18, T31N, R05W 990' FNL & 1330'
County:	Rio Arriba, NM
API #:	30-039-30244
Co-ordinates:	Lat 36.9039841°, -107.3992615° NAD 83
Elevations:	GROUND: 6465' KB: #REF!
Depths (KB):	PBTD: 8293' TD: 8300'

Date Prepared:	12/1/2020	Hespe
Last Updated:	8/19/2024	Moss
Reviewed By:		
Spud Date:	10/10/2007	
Completion Date:	12/2/2007	
Last Workover Date:	NA	

DEVIATED WELL - ALL DEPTHS ARE MD

DEVIATED WELL - ALL DEPTHS ARE MD

All Depths KB

Surface Casing
10-3/4" 40.5# K-55
7 jts set at 328'
265 sx
Circ to surface 328'

Intermediate Csg.
7-5/8" 26.4# K-55
86 jts set at 3989'
900 sx
Circ to surface

Production Casing
5-1/2" 17# N-80
185 jts set at 8298'
220 sx
TOC at 3680' (CBL)

Hole Size
14-3/4"
0'-339'
9-7/8"
339'-4000'
6-3/4"
4000'-8300'

Surface Casing: (10/10/2007)
Drilled 14-3/4" surface hole to 339'. Set 7 jts 10-3/4" 40.5# K-55 csg at 328'.
Cmt w/ 265 sx Type III cmt (371 ft3, 14.5 ppg, 1.4 yld). Circ 25 bbls cmt to surface.

Intermediate Casing: (10/23/2007)
Drilled 9-7/8" intermediate hole to 4000'. Set 86 jts 7-5/8" 26.4# K-55 csg at 3989'.
Cmt lead w/ 800 sx Prem Lite cmt (1680 ft3, 12.1 ppg, 2.1 yld). Tail w/ 100 sx Type III cmt (140 ft3, 14.5 ppg, 1.4 yld). Circ 70 bbls cmt to surface.

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During completion, milled to 8295' & csg wouldn't hold pressure. Set CIBP at 8293'.

Tubing:

	Length (ft)
KB	14
(~255) 2-3/8" 4.7# J-55 tbg jnts	8175
(1) 2-3/8" x 2" pup jt	2
(1) 2-3/8" 4.7# J-55 tbg jnt	32
(1) 1.78" SN	1
(1) MS collar w/ exp check	1

Set at: 8225 ft

Perforations: (11/2007)
Cliffhouse/Menefee: (5422'-5880') 57 holes, 0.34"
5422', 24, 78, 82, 94, 98, 5502', 13, 24, 34, 42, 50, 56, 60, 67, 74, 84, 97, 5601', 08, 14, 20, 25, 28, 38, 52, 62, 71, 81, 87, 96, 99, 5704', 07, 10, 14, 20, 25, 30, 35, 42, 50, 54, 58, 62, 66, 70, 76, 86, 90, 96, 5800', 04, 08, 74, 77, 5880'.
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Frac w/ 9,900# 14/30 LiteProp 125 & 2,000# 20/40 sand in 2255 bbls slickwater.

Dakota: (8208'-8282') 51 holes, 0.34" holes, 3 SPF, 21.42" pent
8208', 11, 15, 18, 22, 26, 32, 38, 44, 52, 57, 61, 66, 70, 74, 78, 8282'.
Frac w/ 9,900# LiteProp 108 & 3,000# SB-Excel in 2484 bbls slickwater.

Formations:

	3671'	Point Lookout	5955'
Pictured Cliffs-			
Lewis-	3792'	Mancos-	6462'
Cliffhouse	5694'	Dakota-	8206'
Menefee	5743'		

Additional Notes:

Max deviation 21.6° at 1208'. Max DLS 5.9 (°/100') at 591'.

There is no record of any workovers since completion.

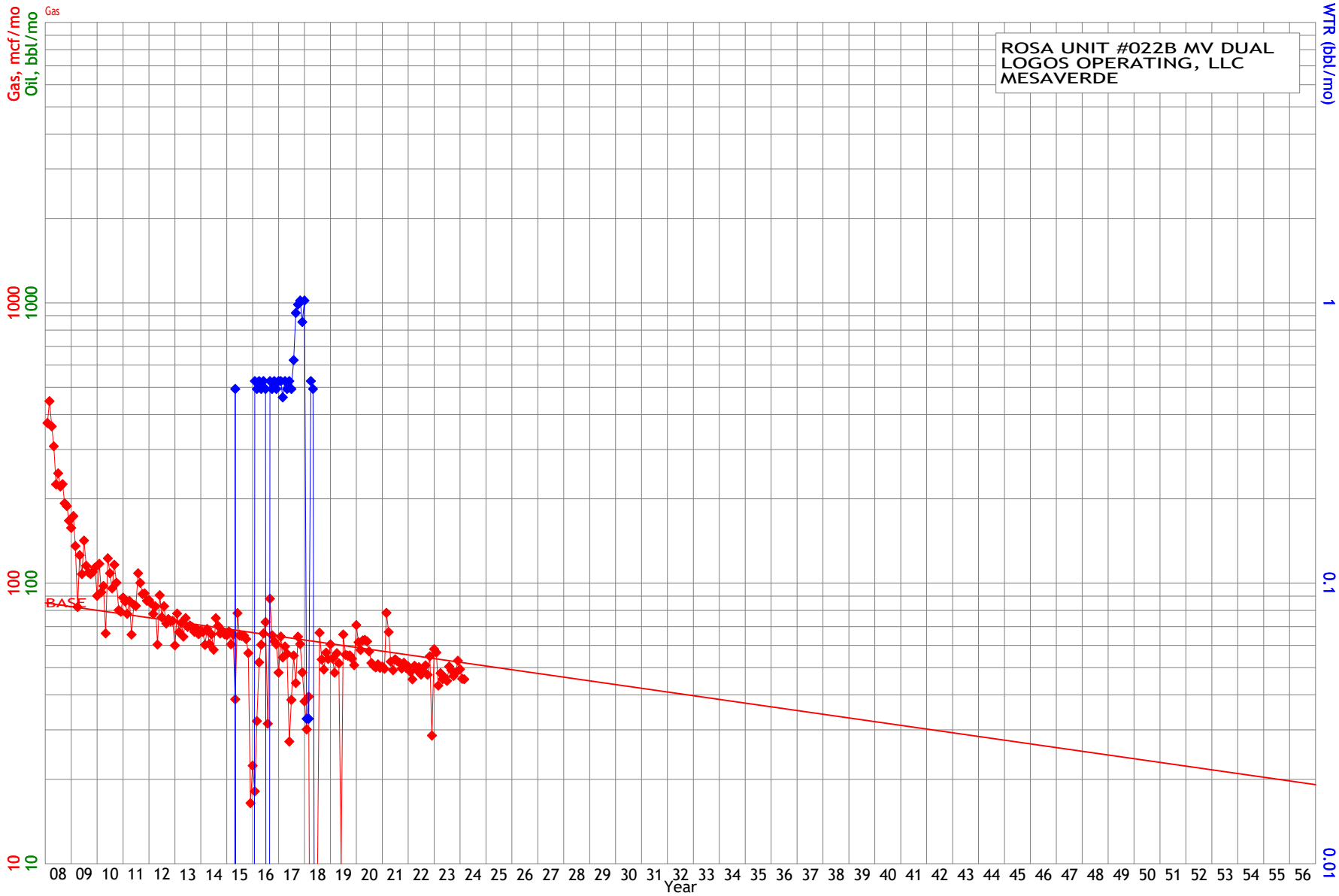
Tubing
2-3/8" 4.7# J-55
~256 jts
SN at ~8223'
EOT at ~8225'

CH/Men: 5422'-5880'
PLO: 5956'-6319'
DK: 8208'-8282'

15.9° at 3296'
3.5° at 3897'
1.5° at 8260'

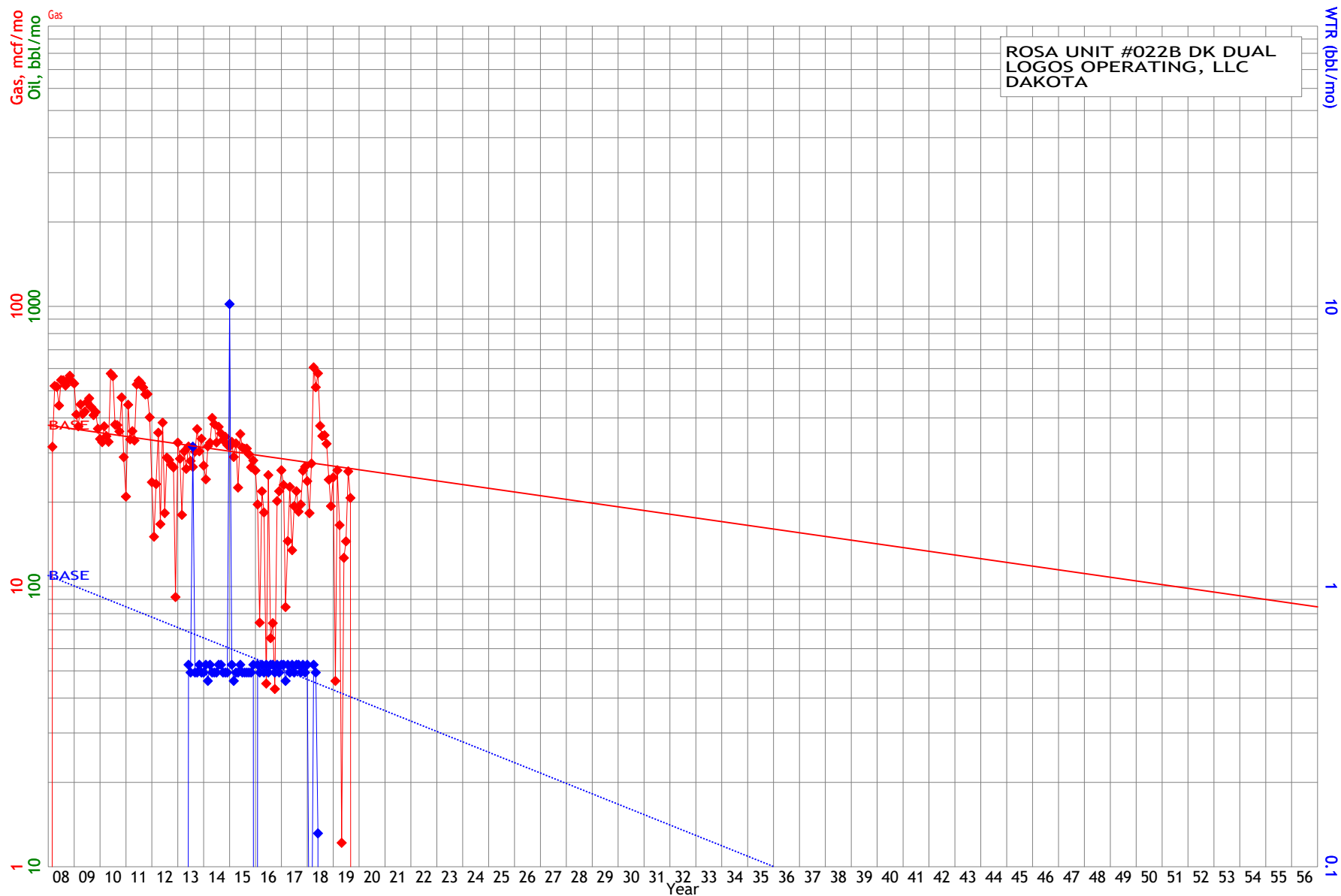
8298'
PBTD - 8293' MD
TD - 8300' MD
CIBP at 8293'

ROSA UNIT #022B MV DUAL
LOGOS OPERATING, LLC
MESAVERDE

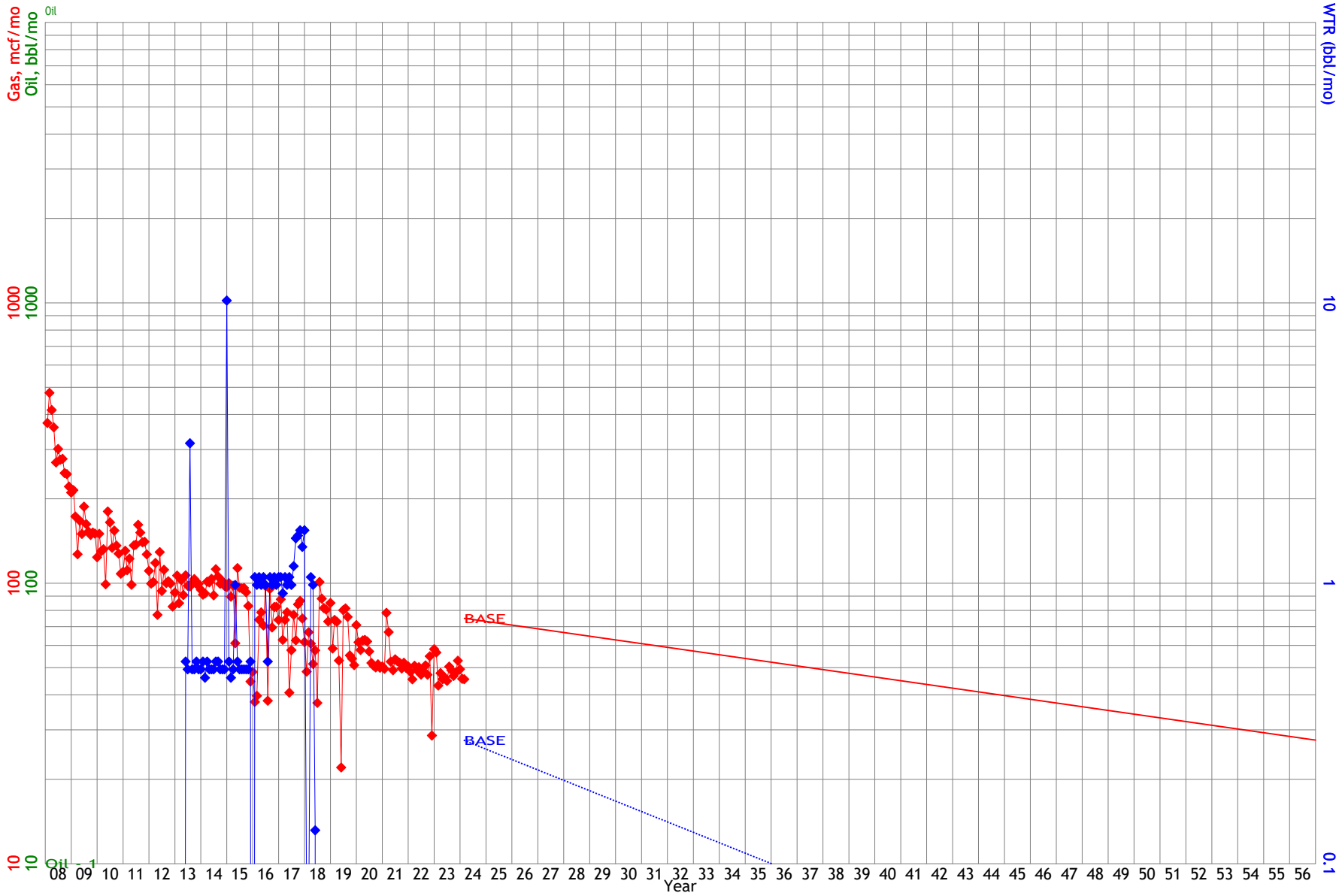


Gas, mcf/mo	—	Oil, bbl/mo	—	WTR (bbl/mo)	—
Qual=	BASE	Ref=	3/2024	Ref=	3/2024
Ref=	3/2024	Cum=	0	Cum=	476
Cum=	450929				
Rem=	593497				
EUR=	1044426				
Yrs=	100.000				
Qi=	52.0				
b=	0.000000				
De=	3.000000				
Qab=	2.5				

ROSA UNIT #022B DK DUAL
LOGOS OPERATING, LLC
DAKOTA



Gas, mcf/mo	Oil, bbl/mo	WTR (bbl/mo)
Qual= BASE	Qual= BASE	Qual= BASE
Ref= 3/2024	Ref= 3/2024	Ref= 3/2024
Cum= 133969	Cum= 0	Cum= 1258
Rem= 262508		Rem= 1175
EUR= 396477		EUR= 2433
Yrs= 100.000		Yrs= 93.000
Qi= 23.0		Qi= 0.3
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De= 3.000000		De= 8.186572
Qab= 1.1		Qab= 0.0



Oil, bbl/mo	Gas, mcf/mo	WTR (bbl/mo)
Ref=	BASE	BASE
Cum=	3/2024	3/2024
	Ref=	Ref=
	Cum=	Cum=
	Rem=	Rem=
	EUR=	EUR=
	Yrs=	Yrs=

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 389297

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 389297
	Action Type: [C-107] Down Hole Commingle (C-107A)

CONDITIONS

Created By	Condition	Condition Date
llowe	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	10/23/2024