

State of New Mexico
Energy, Minerals and Natural Resources

DHC-5429

Form C-103
Revised July 18, 2013OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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		WELL API NO. 30-039-27603
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. NMSF078769
4. Well Location Unit Letter <u>I</u> : <u>2620'</u> feet from the <u>FSL</u> line and <u>545'</u> feet from the <u>FEL</u> line Section <u>17</u> Township <u>31N</u> Range <u>5W</u> NMPM Rio Arriba County		7. Lease Name or Unit Agreement Name ROSA UNIT
		8. Well Number 153B
		9. OGRID Number 289408
		10. Pool name or Wildcat Blanco Mesaverde / Basin Dakota
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6323'		

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 4796' – 5932'
 Basin Dakota 7890' – 8063'
4. Fixed percentage allocation (82%) Blanco Mesaverde and (18%) 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 8/14/2024

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

For State Use Only

APPROVED BY: Dean R McClure TITLE Petroleum Engineer DATE 09/22/2024

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: ROSA UNIT	Well Location: T31N / R5W / SEC 17 / NESE / 36.899423 / -107.378547	County or Parish/State: RIO ARRIBA / NM
Well Number: 153B	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078769	Unit or CA Name: ROSA UNIT--MV	Unit or CA Number: NMNM78407A
US Well Number: 3003927603	Operator: LOGOS OPERATING LLC	

Notice of Intent

Sundry ID: 2806811

Type of Submission: Notice of Intent

Type of Action: Commingling (Subsurface)

Date Sundry Submitted: 08/14/2024

Time Sundry Submitted: 09:09

Date proposed operation will begin: 08/14/2024

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_153B_Downhole_Commingling_20240814_20240814090839.pdf

Well Name: ROSA UNIT

Well Location: T31N / R5W / SEC 17 /
NESE / 36.899423 / -107.378547County or Parish/State: RIO
ARRIBA / NM

Well Number: 153B

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMSF078769

Unit or CA Name: ROSA UNIT--MV

Unit or CA Number:
NMNM78407A

US Well Number: 3003927603

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: AUG 14, 2024 09:09 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: 08/14/2024

Signature: Kenneth Rennick



DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2024)

Rosa Unit 153B
30-039-27603
2620' FSL & 545' FEL
Section 17, T31N, R05W
Rio Arriba, New Mexico
LAT: 36.8994179° N LONG: -107.37854° W
Mesaverde/Dakota

PROJECT OBJECTIVE:

Remove packer, run gyro, and downhole commingle Mesaverde and Dakota.

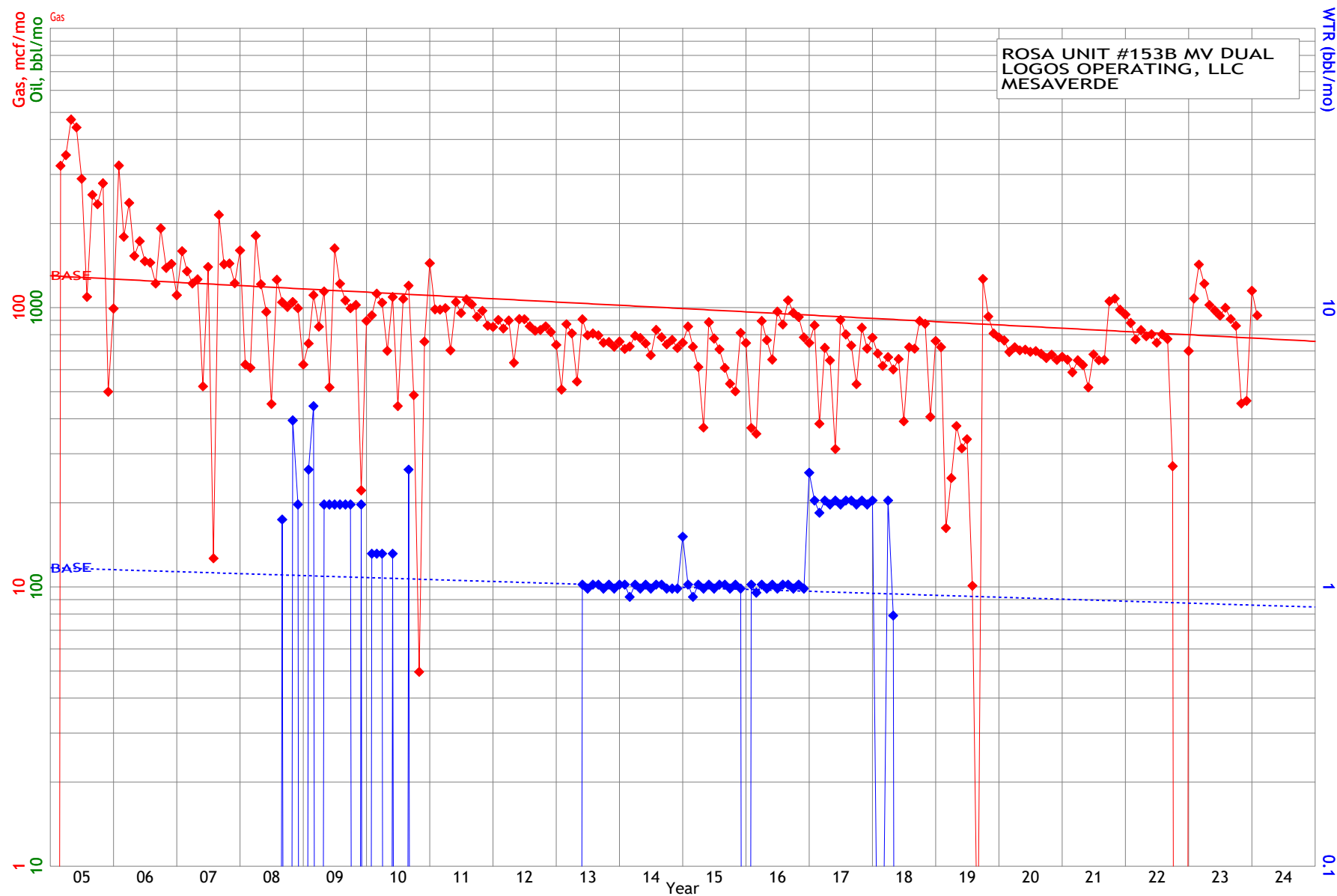
WORKOVER PROCEDURE:

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 Arrow Drill Packer at 6032'. Trip out of hole with packer plucker assembly and string.
7. RU wireline to run gyro to PBTD.
8. Run in hole with single 2-1/16" production tubing string.
9. Return to production as a Mesaverde/Dakota commingle.

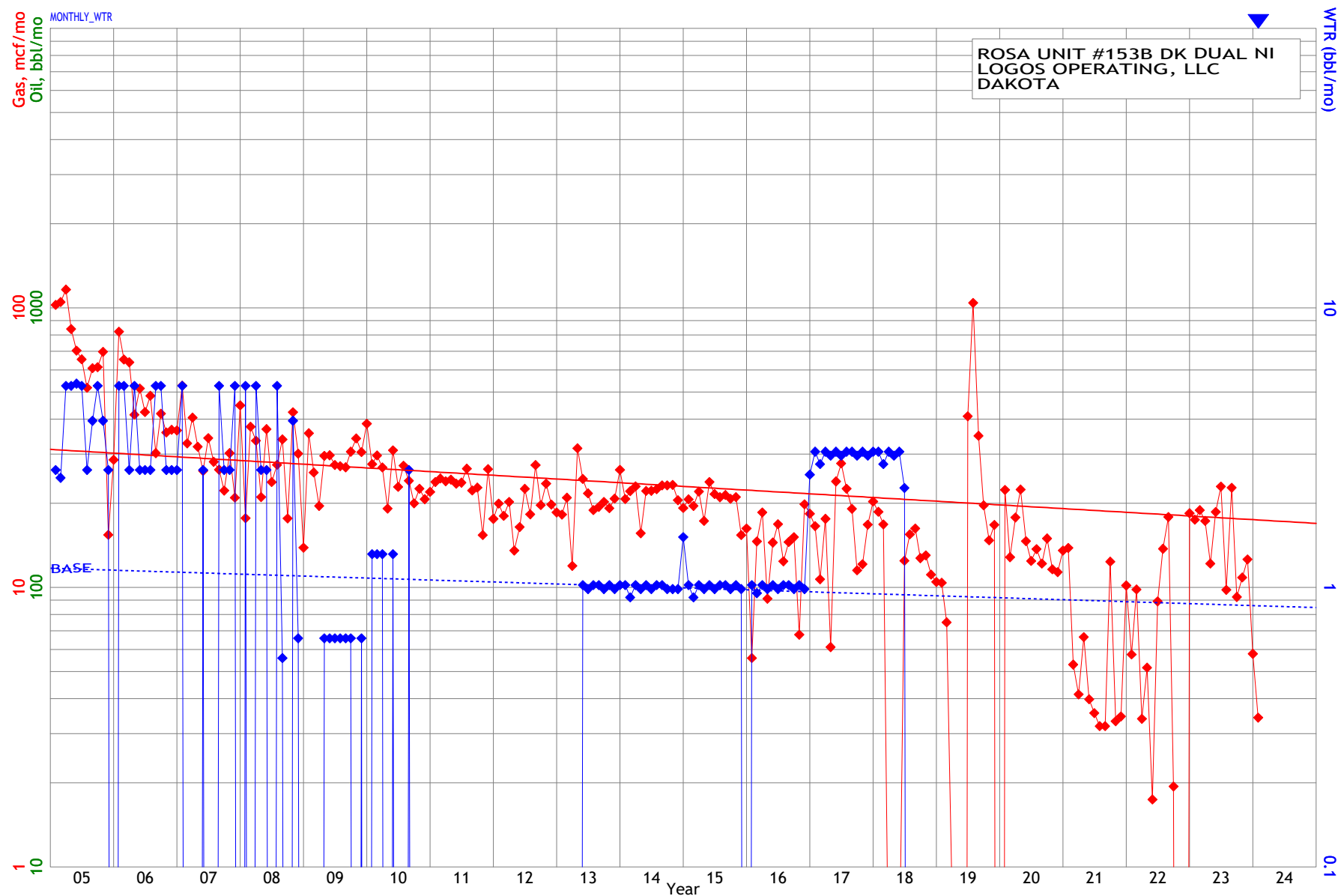
PRODUCTION ALLOCATION

Decline curves for both zones were fitted and analyzed. Current production rates and forecasted EURs were reviewed to arrive at the recommended fixed commingle allocation percentage below.

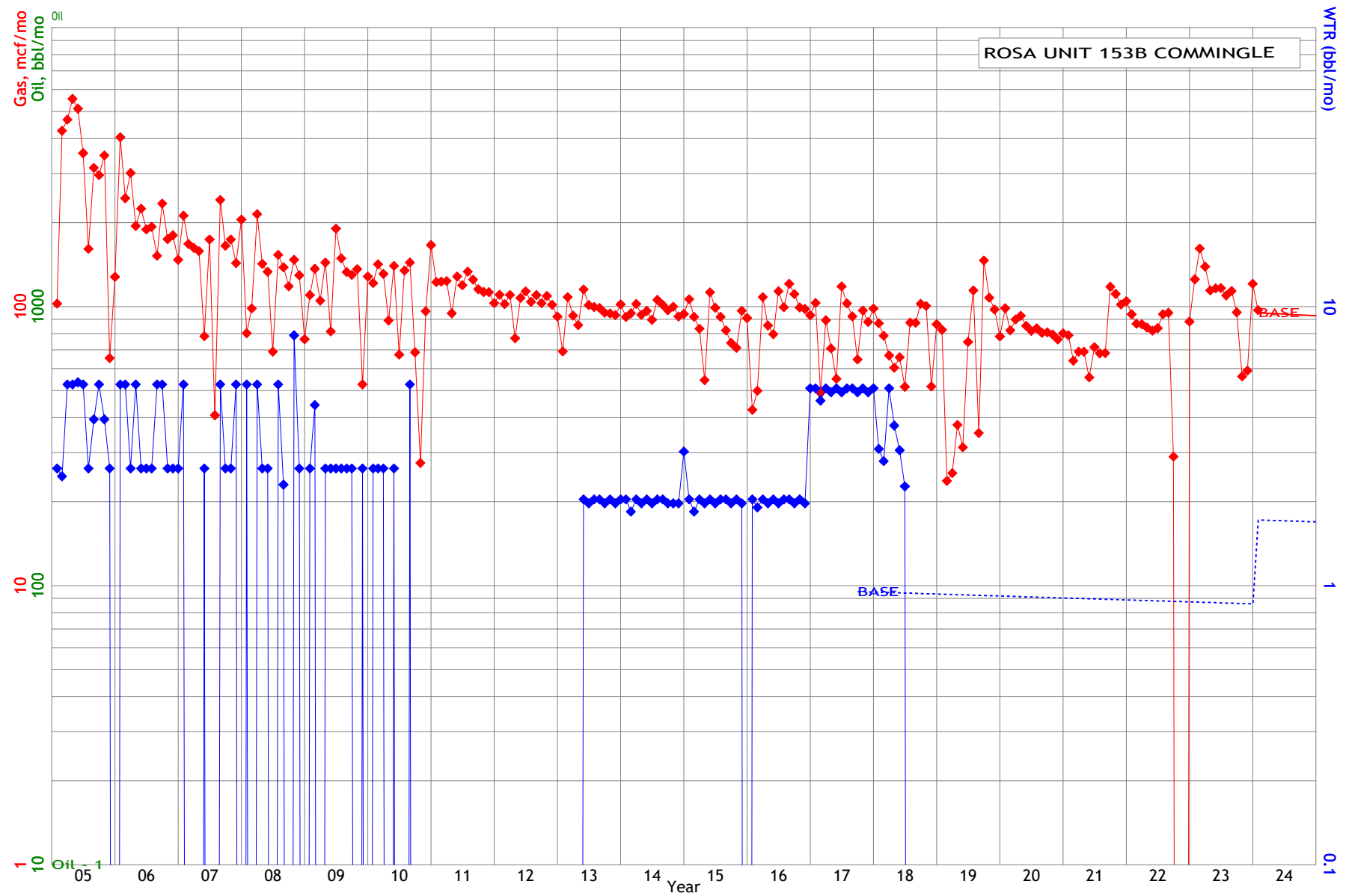
	Forecasted Rate	Forecasted EUR
MV	78	1,3631,870
MV %	82%	82%
DK	17	357,704
DK %	18%	18%
Total	95	1,989,574



Gas, mcf/mo	—	Oil, bbl/mo	—	WTR (bbl/mo)	----
Qual=	BASE	Ref=	2/2024	Qual=	BASE
Ref=	2/2024	Cum=	0	Ref=	2/2024
Cum=	653251			Cum=	3297
Rem=	978619			Rem=	15068
EUR=	1631870			EUR=	18365
Yrs=	100.000			Yrs=	93.083
Qi=	77.7			Qi=	0.9
b=	0.000000			b=	0.000000
De=	2.665700			De=	1.608699
Qab=	5.2			Qab=	0.2



Gas, mcf/mo	—	Oil, bbl/mo	—◆—◆—◆	WTR (bbl/mo)	----
Qual=	BASE	Ref=	2/2024	Qual=	BASE
Ref=	2/2024	Cum=	0	Ref=	2/2024
Cum=	161734			Cum=	7602
Rem=	195970			Rem=	15068
EUR=	357704			EUR=	22670
Yrs=	91.583			Yrs=	93.083
Qi=	17.4			Qi=	0.9
b=	0.000000			b=	0.000000
De=	3.000000			De=	1.608699
Qab=	1.1			Qab=	0.2



Oil, bbl/mo	◆◆◆◆◆	Gas, mcf/mo	—	WTR (bbl/mo)	----
Ref=	2/2024	Calc=	BASE	Calc=	BASE
Cum=	0	Ref=	2/2024	Ref=	2/2024
		Cum=	814985	Cum=	10899
		Rem=	1174589	Rem=	30136
		EUR=	1989574	EUR=	41035
		Yrs=	100.000	Yrs=	93.083

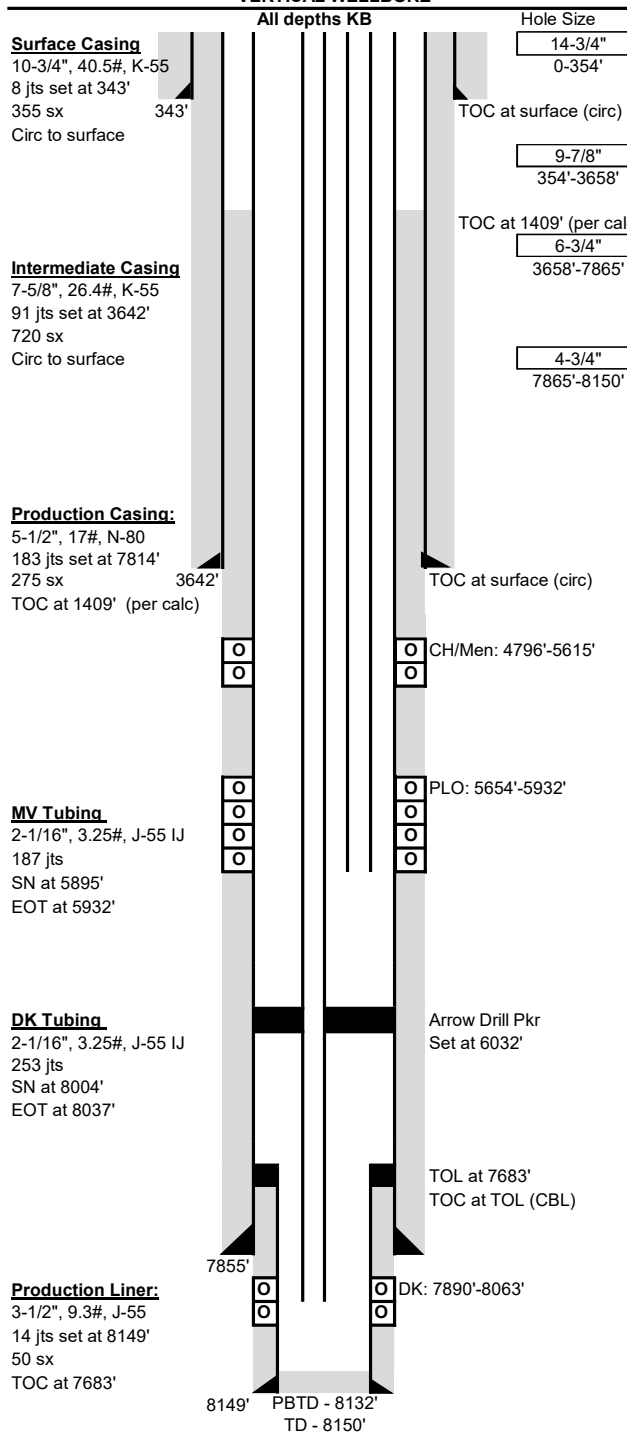


Wellbore Schematic

Well Name: Rosa Unit 153B
 Location: I-17-31N-05W 2620' FSL & 545' FEL
 County: Rio Arriba, NM
 API #: 30-039-27603
 Co-ordinates: Lat 36.8994179, Long -107.37854 NAD83
 Elevations: GROUND: 6323'
 KB: 6337'
 Depths (KB): PBTD: 8132'
 TD: 8150'

Date Prepared: 5/10/2024 Peace
 Reviewed By: Jul 30, 2024 Catherine Salazar
 Last Updated:
 Spud Date: 10/21/2004
 Completion Date: 12/20/2004
 Last Workover Date: N/A

VERTICAL WELLBORE



Surface Casing: (10/21/2004)
 Drilled a 14-3/4" surface hole to 354'. Set 8 jts 10-3/4", 40.5#, K-55 csg at 343'.
 Cmt'd w/ 355 sx Type III (14.5 ppg, 1.41 yd) cmt. Circ 37 bbls cmt to surface.

Intermediate Casing: (11/5/2004)
 Drilled a 9-7/8" intermediate hole to 3658'. Set 91 jts 7-5/8", 26.4#, K-55 csg at 3642'.
 Stage 1: Cmt'd w/ 620 sx Premium lite (12.1 ppg, 2.11 yd).
 Stage 2: Cmt'd w/ 100 sx Type III (14.5 ppg, 1.40 yd). Circ 80 bbls to surface.

Production Casing: (11/14/2004)
 Drilled a 6-3/4" production hole to 7865'. Set 183 jts 5-1/2", 17#, N-80 csg at 7814'.
 Marker jts at 7474' & 5097'.
 Stage 1: Cmt'd w/ 50 sx Premium lite (11.6 ppg, 2.61 yd).
 Stage 2: Cmt'd w/ 225 sx Premium lite (12.3 ppg, 2.15 yd). TOC at 1409' (per calc)

Production Liner: (12/01/2004)
 Drilled a 4-3/4" production hole to 8150'. Set 14 jts 3-1/2", 9.3#, J-55 csg at 8149'.
 Cmt'd w/ 50 sx Premium lite (12.3 ppg, 2.13 yd, 70 cf). TOL at 7683'. Circ 11 bbls to surface. TOC at 7683'

MV Tubing: (11/2004)	Length (ft)
KB	14
(186) 2-1/16" 3.25# J-55 IJ tbg jts	5880
(1) 1.5" SN at 5895'	1
(1) 2-1/16" 3.25# J-55 IJ tbg jt	31
(1) 2-1/16" orange peel perf sub	6
Set at:	5932 ft

DK Tubing: (12/2004)	
KB	14
(1) 2-1/16" 3.25# J-55 IJ tbg jt	33
(3) 2-1/16" pup jts (10', 8', 4')	22
(189) 2-1/16" 3.25# J-55 IJ tbg jt	5934
(1) Seal Assembly at 6032'	6
(62) 2-1/16" 3.25# J-55 IJ tbg jt	1982
(1) 1.5" SN at 8004'	1
(1) 2-1/16" 3.25# J-55 IJ tbg jt w/ MS end	32
Set at:	8037 ft

Artificial Lift:
 NA

Perforations: (12/2004)
DK: (7890'-8063') 3 SPF, 21, 0.67" holes. 7890', 05', 7900', 05', 11', 40', 45', 50', 55', 62', 81', 8004', 14', 27', 33', 38', 42', 48', 53', 58', & 63'. Acidized w/ 12 bbls of 15% acid.
 Frac'd w/ 26,000# 20/40 Econoprop sand.
PLO: (5654'-5932') 3 SPF, 36, 0.34" holes. 5654', 57', 59', 61', 63', 65', 67', 81', 83', 85', 86', 98', 5700', 02', 04', 06', 08', 10', 17', 19', 26', 29', 31', 33', 5848', 51', 54', 99', 5901', 03', 19', 21', 23', 25', 30', 32'.. Acidized w/ 1000 gal 15% HCL.
 Frac w/ 9300# 14/30 Lit prop 125 & 8100# 20/40 sand in 82,320 gals of water.
CH/Men: (4796'-5615') 3 SPF, 32, 0.34" holes. 4796', 98', 4800', 02', 5261', 63', 66', 91', 93', 5420', 23', 26', 29', 80', 82', 84', 86', 93', 95', 97', 99', 5501', 03', 31', 33', 80', 82', 84', 87', 89', 5613', 15'. Acidized w/ 1000 gal 15% HCL.
 Frac w/ 9300# 14/30 Lit prop 125 & 5000# 20/40 sand in 1,098 bbls slickwater.

Formations:	MD	
Pictured Cliffs	2637'	Point Lookout 5642'
Lewis	3167'	Mancos 5992'
Cliff House	5387'	Dakota 7887'
Menefee	5432'	

Additional Notes:

2004 Initial Completion. Completed the DK & MV. Set 2-1/16" MV tbg at 5932' & 2-1/16" DK tbg at 8037' & PKR at 6032'.

No records of any workovers

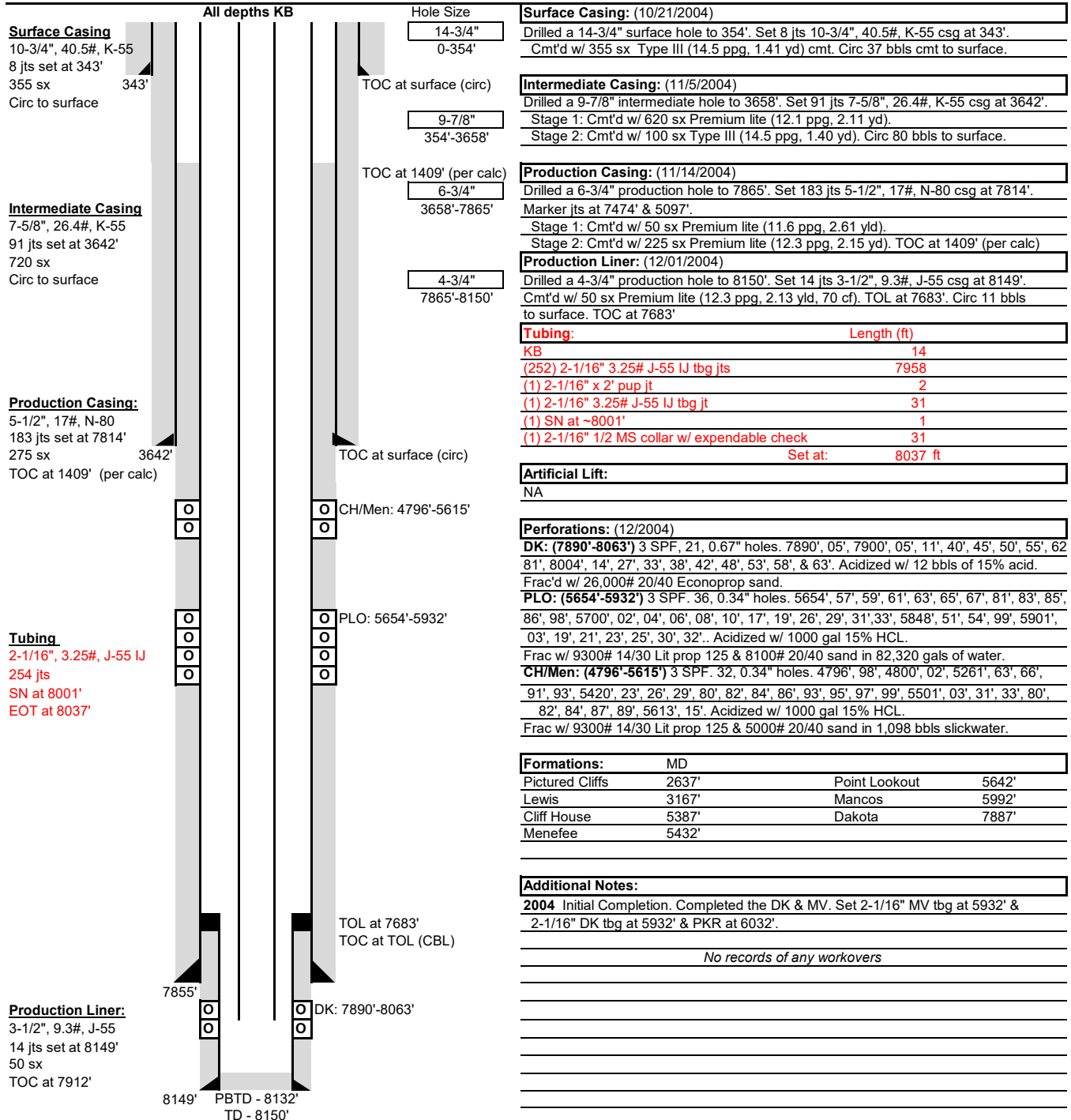


Proposed Commingle Wellbore Schematic

Well Name: Rosa Unit 153B
 Location: I-17-31N-05W 2620' FSL & 545' FEL
 County: Rio Arriba, NM
 API #: 30-039-27603
 Co-ordinates: Lat 36.8994179, Long -107.37854 NAD83
 Elevations: GROUND: 6323'
KB: 6337'
 Depths (KB): PBTD: 8132'
TD: 8150'

Date Prepared: 5/10/2024 Peace
 Reviewed By: _____
 Last Updated: _____
 Spud Date: 10/21/2004
 Completion Date: 12/20/2004
 Last Workover Date: N/A

VERTICAL WELLBORE



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

COMMENTS

Action 373965

COMMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373965
	Action Type: [C-107] Down Hole Commingle (C-107A)

COMMENTS

Created By	Comment	Comment Date
dmcclure	Permit No. DHC-5429	9/22/2024

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 373965

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373965
	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.	9/22/2024
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.	9/22/2024
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.	9/22/2024