Received by OCP: 3/4/2024 1:24:05 PM State of Nev	M:	Form C-103 of
Office District of Trees		DHC-5359 Revised July 18, 2013
<u>District I</u> – (575) 393-6161 Energy, Minerals and 1625 N. French Dr., Hobbs, NM 88240	Natural Resources	WELL API NO.
District II - (575) 748-1283	TION DIVISION	30-039-22537
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178  1220 South St.		5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410		STATE FEE 6. State Oil & Gas Lease No.
<u>District IV</u> – (505) 476-3460  1220 S. St. Francis Dr., Santa Fe, NM  87505	WI 67303	NMSF078763
SUNDRY NOTICES AND REPORTS ON W (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN		7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-PROPOSALS.)		ROSA UNIT
1. Type of Well: Oil Well Gas Well X Other		8. Well Number 080
Name of Operator LOGOS OPERATING LLC		9. OGRID Number 289408
Address of Operator     2010 AFTON PLACE FARMINGTON, NM 87401		10. Pool name or Wildcat BASIN DAKOTA/BLANCO MESAV
4. Well Location		
Unit Letter K: 1660' feet from the S lin	e and _1780'	feet from theWline
		MPM County RIO ARRIBA
11. Elevation (Show whether	er DR, RKB, RT, GR, etc.,	
6261'		
12. Check Appropriate Box to Indica	ate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK   PLUG AND ABANDON		
TEMPORARILY ABANDON   CHANGE PLANS		
PULL OR ALTER CASING   MULTIPLE COMPL	] CASING/CEMEN	T JOB
DOWNHOLE COMMINGLE X		
CLOSED-LOOP SYSTEM  OTHER:	] OTHER:	П
13. Describe proposed or completed operations. (Clearly sta		d give pertinent dates, including estimated date
of starting any proposed work). SEE RULE 19.15.7.14 N		
proposed completion or recompletion.	_	
Pre-approved Pool Division Order R-13122.		
Pools to be commingled: Mesa Verde (72319) and Basin Dakota (	71599)	
Perforated Intervals:	(1377)	
Mesa Verde: 5376'-5724'		
Basin Dakota: 7845'- <del>7909</del> ' 7978'		
Fixed percentages allocation based upon production date 37% Me		Dakota. This is based upon the historic
production of both the Mesa Verde and Basin Dakota production:	zones within the well.	
Commingling will not reduce the value of the reserves.  Interest owners in the spacing unit have not been notified of the in	tent of the downhole com	umingle per order R_12001_RI M has been
notified on the sundry notice form 3160-5, attached.	tent of the downhole con	inningle per order K-12771. BEW has been
, ,		
Spud Date: Rig Relea	nce Dote:	
Spud Date. Rig Relea	ise Date.	
I hereby certify that the information above is true and complete to	the best of my knowledg	e and belief.
	, ,	
SIGNATURE Lacey Granillo TITLE Regulatory Specia	listDAT	E_3/4/24
Type or print name <u>Lacey Granillo</u> E-mail address: <u>lgranillo@</u> <b>For State Use Only</b>	logosresourcesllc.com I	PHONE: _5057870118
19 12 m 10	otroloum Engineer	02/20/201
APPROVED BY: Dean Molline TITLE P	enoleum Engineer	DATE 03/28/2024

#### 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.

The Operator shall calculate the oil and gas production average during the fourth year after the commencement of commingling, which shall be used to establish a fixed percentage of the total oil and gas production that shall be allocated to each of the Pools ("fixed percentage allocation plan"). No later than ninety (90) days after the fourth year, the Operator shall submit a Form C-103 to the OCD Engineering Bureau that includes the fixed percentage allocation plan and all data used to determine it. If the Operator fails to do so, this Permit shall terminate on the following day. If OCD denies the fixed percentage allocation plan, this Permit shall terminate on the date of such action. If OCD approves the percentage allocation plan with or without modifications, then the approved percentage allocation plan shall be used to determine oil and gas allocation starting on the date of such action until the Well is plugged and abandoned.



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repor

Well Name: ROSA UNIT Well Location: T31N / R5W / SEC 8 / County or Parish/State: RIO

NESW / 36.911041 / -107.38829 ARRIBA / NM

Well Number: 80 Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

Lease Number: NMSF078763 Unit or CA Name: ROSA UNIT--DK, **Unit or CA Number:** NMNM78407A, NMNM78407B

**ROSA UNIT--MV** 

**US Well Number: 3003922537** Well Status: Producing Gas Well **Operator: LOGOS OPERATING** 

LLC

# **Notice of Intent**

**Sundry ID: 2778433** 

Type of Submission: Notice of Intent Type of Action: Commingling (Subsurface)

Date Sundry Submitted: 03/07/2024 Time Sundry Submitted: 01:07

Date proposed operation will begin: 03/07/2024

Procedure Description: Down hole Commingle LOGOS Operating requests to downhole commingle the Mesa Verde and Dakota per the attached procedure. Note: Attached C103 Commingle submitted to NMOCD

# **NOI Attachments**

## **Procedure Description**

FOR\_REGULATORY\_\_Rosa\_Unit\_80\_\_\_Commingle\_Allocation\_Procedure\_final\_20240307130710.pdf

C\_103\_rosa\_unit\_80\_downhole\_commingle\_20240307130710.pdf

eceived by OCD: 3/4/2024 1:24:05 PM Well Name: ROSA UNIT

Well Location: T31N / R5W / SEC 8 /

NESW / 36.911041 / -107.38829

County or Parish/State: Rige 4 of

ARRIBA / NM

Well Number: 80

Type of Well: CONVENTIONAL GAS

**Allottee or Tribe Name:** 

Lease Number: NMSF078763

Unit or CA Name: ROSA UNIT--DK,

**ROSA UNIT--MV** 

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

**US Well Number:** 3003922537

Well Status: Producing Gas Well

**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: LACEY GRANILLO** Signed on: MAR 07, 2024 01:07 PM

Name: LOGOS OPERATING LLC Title: REGULATORY SPECIALIST Street Address: 2010 AFTON PLACE

City: FARMINGTON State: NM

Phone: (505) 324-4145

Email address: LGRANILLO@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: 03/08/2024

Signature: Kenneth Rennick

Page 2 of 2



### **DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2024)**

Rosa Unit 80 30-039-22537 1660' FSL & 1780' FWL Section 8, T31N, R05W Rio Arriba, New Mexico LAT: 36.9112473° N LONG: -107.3886337° 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 ~6 months. Once uplift and an updated baseline production decline for the Mesaverde is established, the bridge plug 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.
- Run in hole with packer plucker to retrieve Model D Packer at 5900'. Trip out of hole with packer plucker assembly and workstring.
- 7. Rig up wireline to run gyro survey
- 8. Set bridge plug within 50' of the top Dakota perforation.
- 9. Based on results of the gyro survey, if necessary for new well drilling, 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 drilling.
- 12. Once offset drilling is completed 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 set above the Dakota perforations and push to bottom.
- 14. Run in hole with 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 080 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.



# **Wellbore Schematic**

Well Name:	Rosa Unit 80	
Location:	K-08-31N-05W 1660	' FSL & 1780' FWL
County:	Rio Arriba, NM	
API#:	30-039-22537	
Co-ordinates:	Lat 36.9112473, Long -1	07.3886337 NAD83
Elevations:	GROUND:	6261'
	KB:	6275'
Depths (KB):	PBTD:	7942'
	TD	00451

TD - 8015'

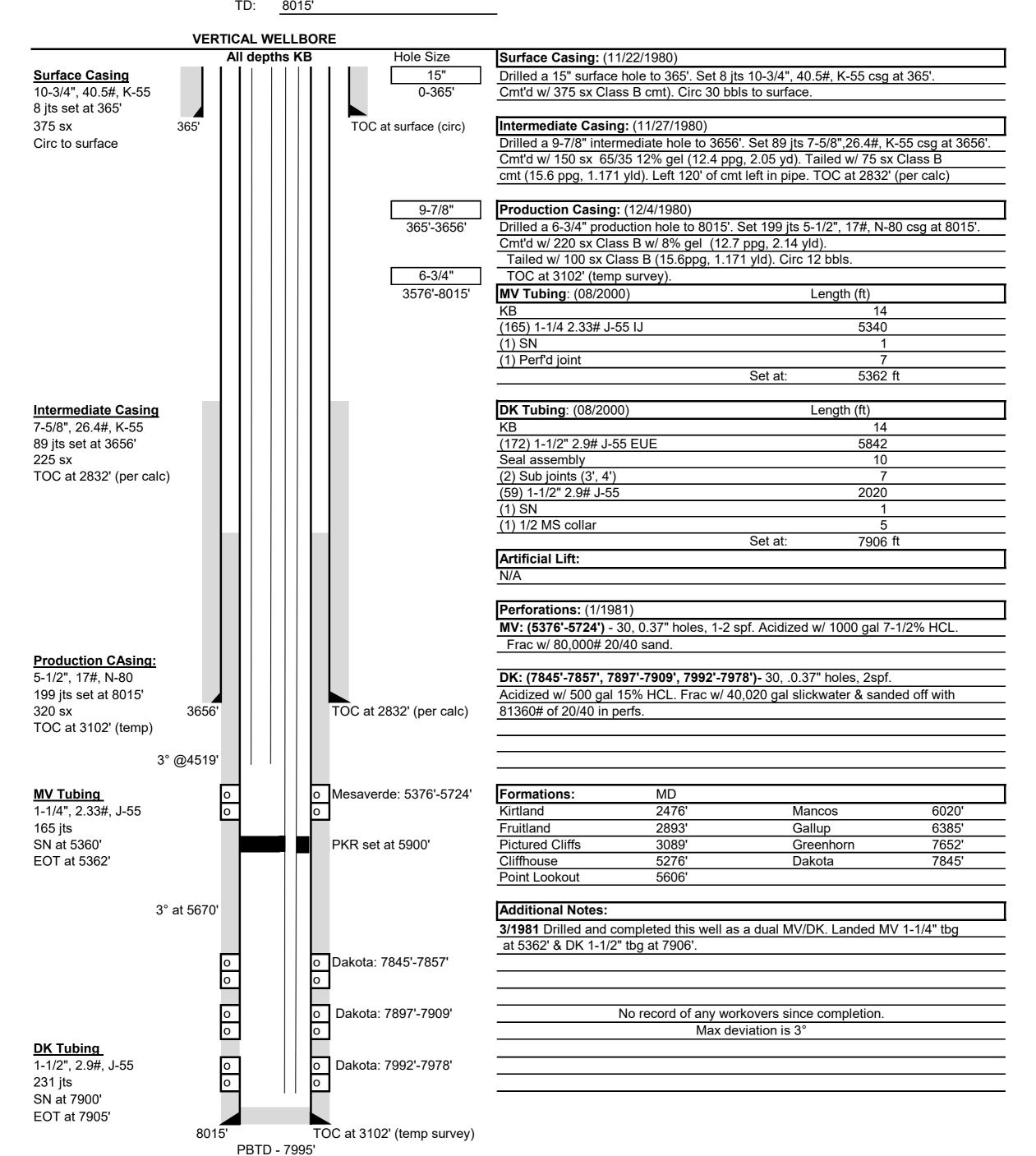
 Date Prepared:
 2/7/2024 Peace

 Reviewed By:
 2/14/2024 Moss

 Last Updated:
 11/22/1980

 Spud Date:
 3/19/1981

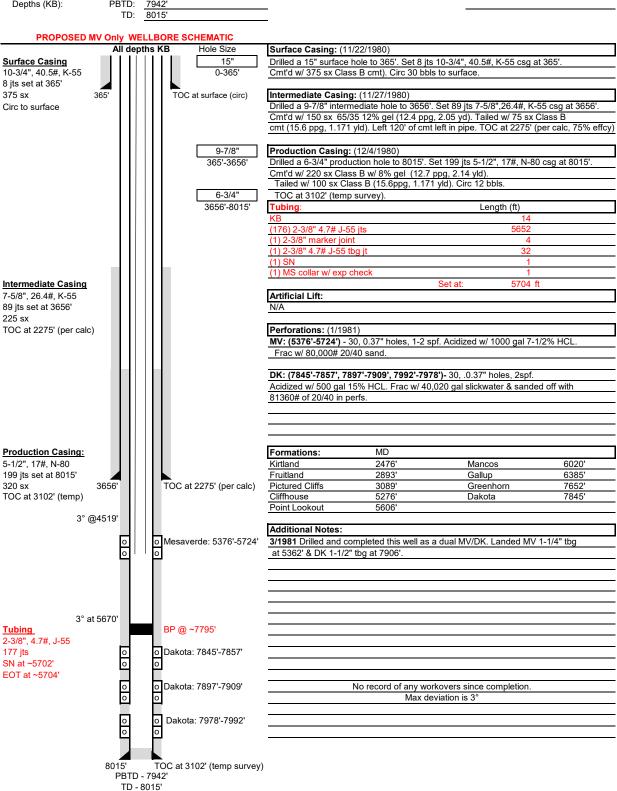
 Last Workover Date:
 11/22/1980





#### Wellbore Schematic

Well Name:	Rosa Unit 80		Date Prepared:	2/7/2024 Peace	
Location:	K-08-31N-05W	1660' FSL & 1780' FWL	Reviewed By:	2/14/2024 Moss	
County:	Rio Arriba, NM		Last Updated:		
API#:	30-039-22537		Spud Date:	11/22/1980	
Co-ordinates:	Lat 36.9112473, Lo	ong -107.3886337 NAD83	Completion Date:	3/19/1981	
Elevations:	GROUND:	6261'	Last Workover Date:		
	KB:	6275'			
Depths (KB):	PBTD:	7942'			
	TD:	8015'			



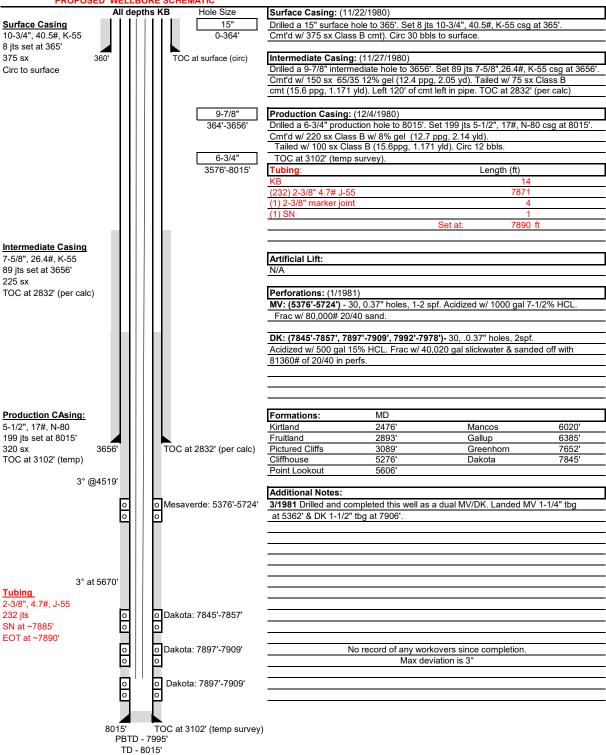


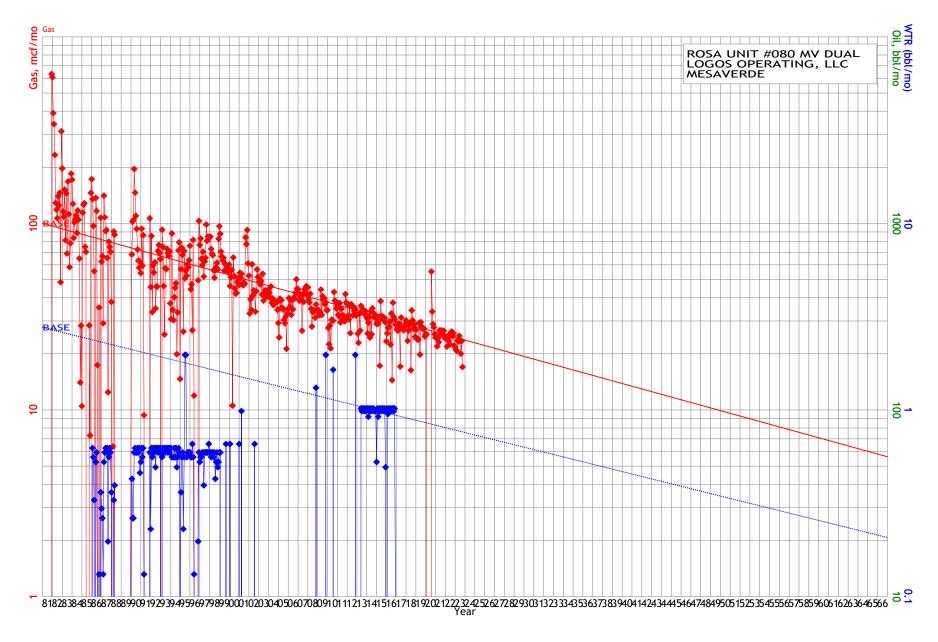
#### Wellbore Schematic

Well Name:	Rosa Unit 80	
Location:	K-08-31N-05W	1660' FSL & 1780' FWL
County:	Rio Arriba, NM	
API#:	30-039-22537	
Co-ordinates:	Lat 36.9112473, Lo	ong -107.3886337 NAD83
Elevations:	GROUND:	6261'
	KB:	6275'
Depths (KB):	PBTD:	7942'
	TD:	8015'

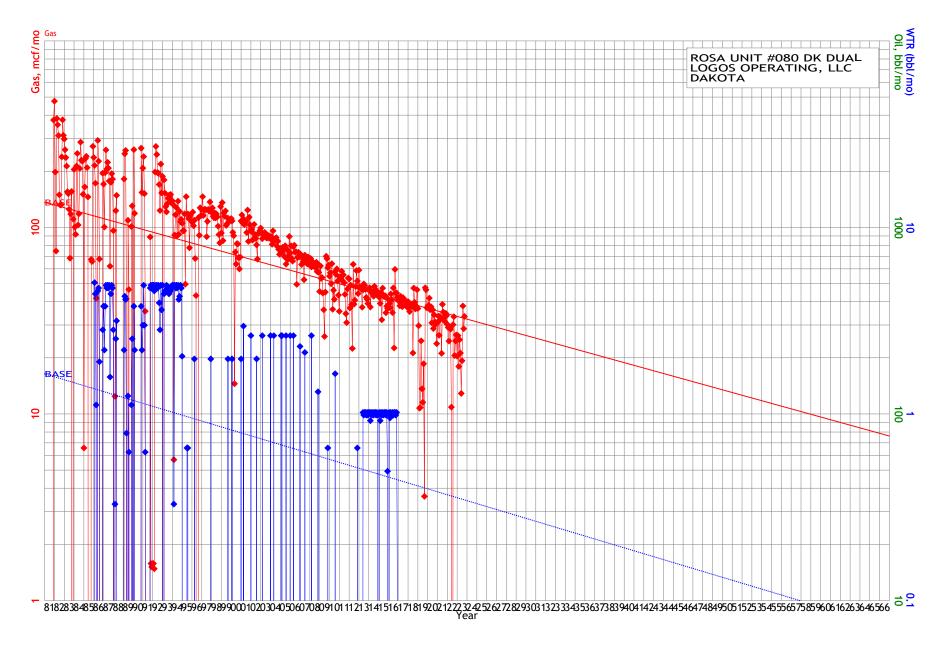
Date Prepared: 2/7/2024 Peace Reviewed By: 2/14/2024 Moss Last Updated: Spud Date: 11/22/1980 Completion Date: 3/19/1981 Last Workover Date:

### PROPOSED WELLBORE SCHEMATIC





Gas, mcf/	/mo ——	Oil, bbl/	mo <b>++++</b>	WTR (bb	l/mo)
Qual= Ref= Cum= Rem= EUR= Yrs= Qi= b= De= Qab=	BASE 10/2023 768946 249934 1018880 96.000 23.9 0.000000 3.294250 1.0	Ref= Cum=	10/2023 0	Qual= Ref= Cum= Rem= EUR= Yrs= Qi= b= De= Qab=	BASE 10/2023 3602 8042 11644 67.917 0.8 0.000000 2.970185 0.1



Gas, mcf/	<sup>7</sup> /mo ── Oil, bbl/mo	<ul><li>WTR (bbl</li></ul>	/mo)
Qual= Ref= Cum= Rem= EUR= Yrs= Qi= b= De= Qab=	BASE Ref= 10/2 10/2023 Cum= 1288584 340527 1629111 98.083 32.5 0.000000 3.299933 1.2		BASE 10/2023 11857 3355 15212 93.417 0.3 0.000000 3.574805

From: McClure, Dean, EMNRD

To: "Catlain Richardson"; Lacey Granillo

Cc: Vanessa Fields; Roberts, Kelly, EMNRD; Kaitlyn Moss; Etta Trujillo; Krista McWilliams; Courtney Peace; Marcia

<u>Brueggenjohann</u>

**Subject:** RE: [EXTERNAL] Re: Action ID: 319887; DHC-5359

**Date:** Thursday, March 28, 2024 12:23:00 PM

Attachments: <u>image001.png</u>

#### Catlain,

Please submit a Form C-103 for record cleanup with a description of the placement of the additional perforations which should include the approximate date of when the work was completed, range of the perforations, SPF, etc.

Additionally, please submit an amended Form C-105 which includes the additional perforations.

This process may be done concurrently with review and approval of the DHC, but should hopefully be taken care of within the near future. Once submitted, please provide me with the action IDs for a faster review.

Dean McClure

Petroleum Engineer, Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department (505) 469-8211

From: Catlain Richardson < CRichardson@logosresourcesllc.com>

Sent: Wednesday, March 27, 2024 5:44 PM

To: Lacey Granillo < Igranillo@logosresourcesllc.com>; McClure, Dean, EMNRD

<Dean.McClure@emnrd.nm.gov>

Cc: Vanessa Fields <vfields@logosresourcesllc.com>; Roberts, Kelly, EMNRD

<Kelly.Roberts@emnrd.nm.gov>; Kaitlyn Moss <kmoss@logosresourcesllc.com>; Etta Trujillo

<etrujillo@logosresourcesllc.com>; Krista McWilliams <kmcwilliams@logosresourcesllc.com>;

Courtney Peace <cpeace@logosresourcesllc.com>; Marcia Brueggenjohann

<mbrueggenjohann@logosresourcesllc.com>

Subject: [EXTERNAL] Re: Action ID: 319887; DHC-5359

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dean,

We owe you a follow up on the Rosa Unit 080 perforations discrepancy you identified yesterday.

During our well history review, it was identified that there are lower Dakota perforations in the well that the operator at the time did not report to the NMOCD when the well was completed.

The lower Dakota perforations within this well schematic are accurate.

Thank you,



#### **Catlain Richardson**

Production and Completion Engineering Manager

Phone: 505-278-8720

Mobile: 505-320-3499

Email: <a href="mailto:crichardson@logosresourcesllc.com">crichardson@logosresourcesllc.com</a>

2010 Afton Place

Farmington, NM 87401

www.logosenergyllc.com

From: Lacey Granillo < <a href="mailto:lgranillo@logosresourcesllc.com">lgranillo@logosresourcesllc.com</a>>

Sent: Wednesday, March 27, 2024 1:48 PM

To: McClure, Dean, EMNRD < Dean. McClure@emnrd.nm.gov >

Cc: Vanessa Fields < vfields@logosresourcesllc.com >; Roberts, Kelly, EMNRD

< <a href="mailto:kelly.Roberts@emnrd.nm.gov">kelly.Roberts@emnrd.nm.gov</a>; Catlain Richardson < <a href="mailto:kelly.Roberts@emnrd.nm.gov">CRichardson@logosresourcesllc.com</a>; Kaitlyn

Moss <a href="mailto:kmoss@logosresourcesllc.com">kmoss@logosresourcesllc.com</a>; Etta Trujillo <a href="mailto:kmoss@logosresourcesllc.com">krista</a>

McWilliams < <a href="mailto:kmcwilliams@logosresourcesllc.com">kmcwilliams@logosresourcesllc.com</a>; Courtney Peace

<cpeace@logosresourcesllc.com>; Marcia Brueggenjohann

<mbrueggenjohann@logosresourcesllc.com>

**Subject:** RE: Action ID: 319887; DHC-5359

Good afternoon, Dean-

Please see attached updated DHC allocation procedure for the Rosa Unit 080.

Thank you,

# Lacey Granillo

Regulatory Specialist

Cell: 505-787-0118

lgranillo@logosresourcesllc.com



From: McClure, Dean, EMNRD < Dean.McClure@emnrd.nm.gov>

**Sent:** Tuesday, March 26, 2024 3:38 PM

**To:** Lacey Granillo < lgranillo@logosresourcesllc.com>

**Cc:** Vanessa Fields < <u>vfields@logosresourcesllc.com</u>>; Roberts, Kelly, EMNRD

<<u>Kelly.Roberts@emnrd.nm.gov</u>>

Subject: Action ID: 319887; DHC-5359

To whom it may concern (c/o Lacey Granillo for Logos Operating, LLC),

### The Division is reviewing the following application:

Action ID	319887
Admin No.	DHC-5359
Applicant	Logos Operating, LLC (289408)
Title	Rosa Unit #80
Sub. Date	3/4/2024

### Please provide the following additional supplemental documents:

•

### Please provide additional information regarding the following:

- Logos is proposing a fixed percentage allocation based off of cumulative production. However, it appears that current production rates deviate from that fixed percentage. Please note that a fixed percentage assigned at this time should be representative of the remaining production predicted to be derived from each pool. Please provide additional information regarding why Logos feels its currently proposed fixed percentage will accurately allocate the remaining production within the well, or diversely please re-evaluate and propose a new allocation. Due to the advanced decline of the well, it may be suitable to consider the current production rates, but Logos may consider using the decline curves to predict a cumulative value for the next 5 years and then determine a fixed percentage from that.
- There appears to be a discrepancy regarding the perforation range for the Dakota formation within Logos's application and within the well file. The well file and sundry indicate that the perforation range is 7845' to 7909', but the provided well bore diagram indicates that the perforation range is 7845' to 7978'. Please provide the perforation range for the Dakota and provide an amended document for whichever is in error.

#### Additional notes:

•

All additional supplemental documents and information may be provided via email and should be done by replying to this email. The produced email chain will be uploaded to the file for this application.

Please note that failure to take steps to address each of the requests made in this email within 10 business days of receipt of this email may result in the Division rejecting the application requiring the submittal of a new application by the applicant once it is prepared to address each of the topics raised.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211



# DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD 2024)

Rosa Unit 80 30-039-22537 1660' FSL & 1780' FWL Section 8, T31N, R05W Rio Arriba, New Mexico AT: 36.9112473° N LONG: -107.3886337° Mesaverde/Dakota

### **PROJECT OBJECTIVE:**

Remove packer and run gyro survey and anding results, set a bridge plug by w the Mesaverde & above the Dakota perforations and load hole to isolate the per rations during offset Mancos of ling. Once drilling is complete, remove bridge plugs and downhole commingle Mesa and Dakota.

#### **WORKOVER PROCEDURE:**

- 1. Hold safety meeting. MIRU workover rig. Plan fire and safety pripment in strategic locations. Comply with all LOGOS, BLM, and NMOCD rules and regulation
- 2. Lay flow lines. Check and record casing and tubing sessure. 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 will be rede 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 Med D Packer at 590. Trip out of hole with packer plucker assembly and workstring.
- 7. Run gyro survey to determine the proximy of the well to the planned number drill.
- 8. If gyro results indicate the well is neglenough to require isolation, set bridge lug within 50' above of the Dakota perforations and 50' below the Medicate. SI for drilling.
- 9. Once drilling is completed, trip nole and remove the bridge plugs.
- 10. Run in hole with single 2-3 production tubing string.
- 11. Return to production as Mesaverde/Dakota commingle.

LOGOS Operating, LLC Rosa Unit 080 mmingle Pure 2 of 2

### PRODUCTION ALLOCATION

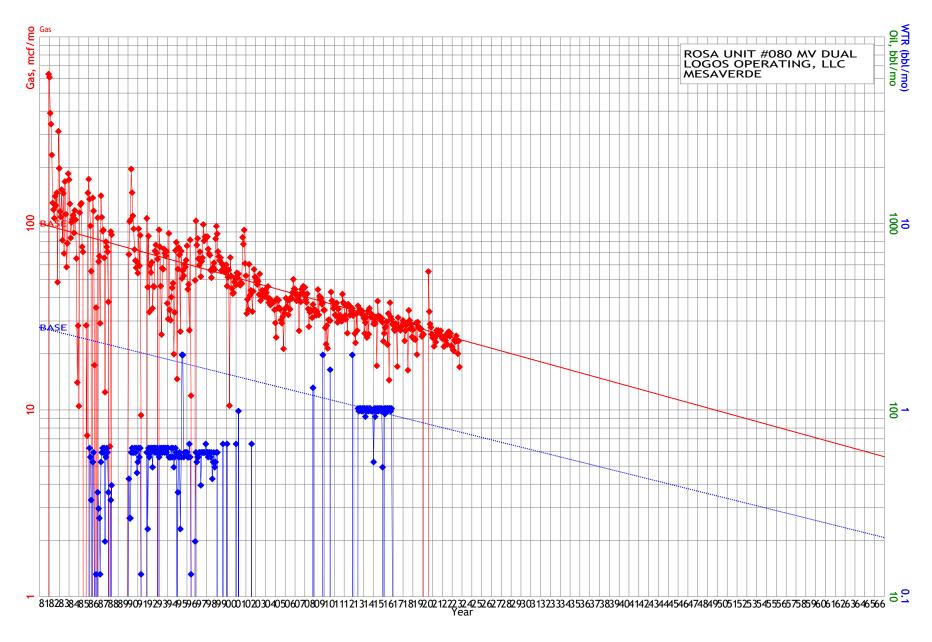
Historic projection data from both zones in this well was gathered and analyzed. Cumulative production was used to determine all actions and allocations were verified with recent production history.

## **Cumulative Pro** ction

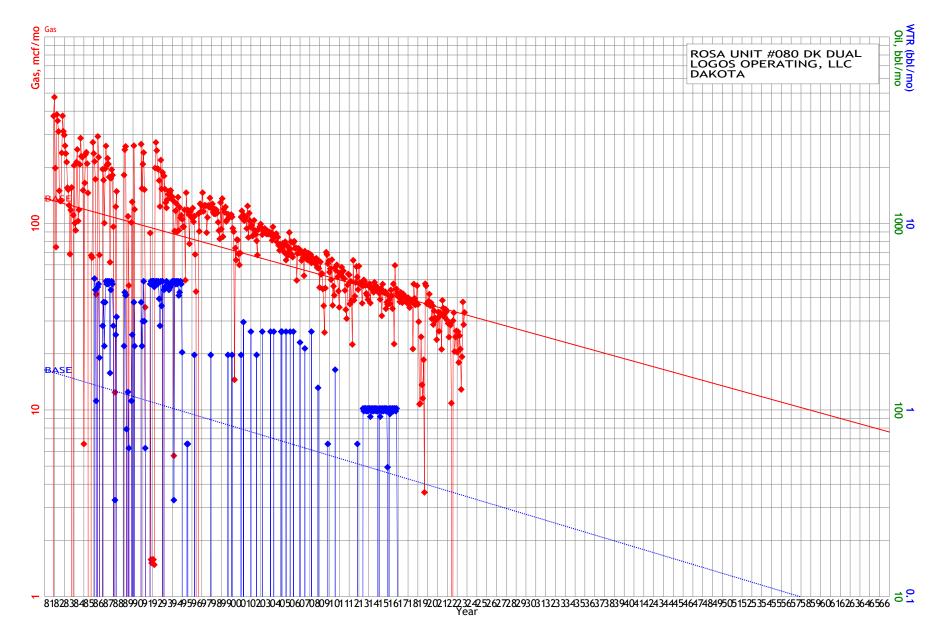
Cumulative production 2057.5 MMcf
Cumulative MV production 768.9 MMcf
Cumulative DK production 1288.6 MMcf

MV allocation = MV cumulative = 768.9/2057.5 = **37%** 

DK allocation = DK cumulative total cumulative = 1288.6/ =63%



Gas, mcf		WTR (bbl/mo)
Qual= Ref= Cum= Rem= EUR= Yrs= Qi= b= De= Qab=	BASE Ref= 10/202 10/2023 Cum= 768946 249934 1018880 96.000 23.9 0.000000 3.294250 1.0	



Gas, mcf/	′mo ——	Oil, bbl.	/mo <del>◆ ◆ ◆</del>	WTR (bb	l/mo)
Qual= Ref= Cum= Rem= EUR= Yrs= Qi= b= De= Qab=	BASE 10/2023 1288584 340527 1629111 98.083 32.5 0.000000 3.299933 1.2	Ref= Cum=	10/2023	Qual= Ref= Cum= Rem= EUR= Yrs= Qi= b= De= Qab=	BASE 10/2023 11857 3355 15212 93.417 0.3 0.000000 3.574805 0.0

Page 20 of 24

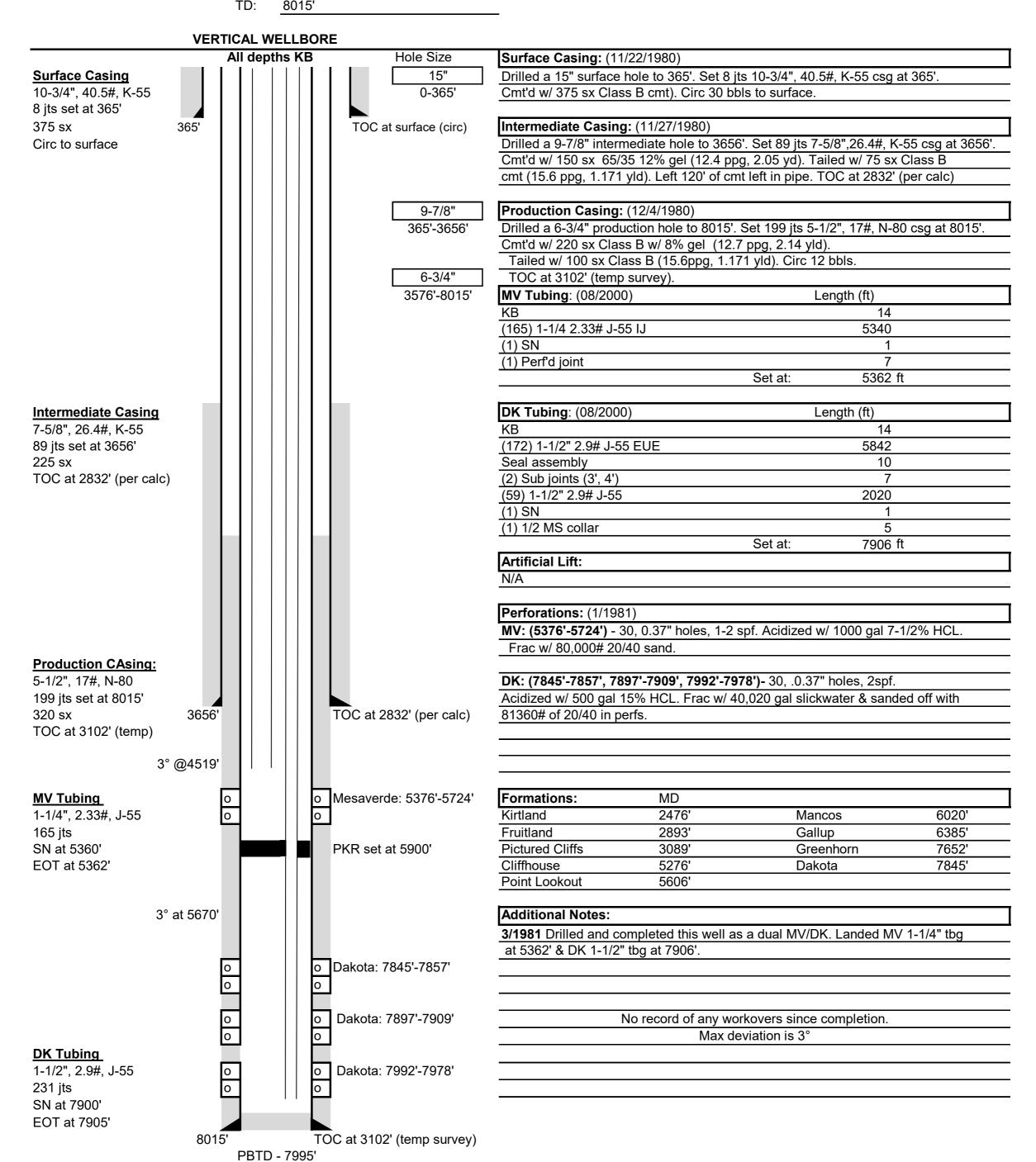


# **Wellbore Schematic**

Well Name:	Rosa Unit 80	
Location:	K-08-31N-05W 1660	' FSL & 1780' FWL
County:	Rio Arriba, NM	
API #:	30-039-22537	
Co-ordinates:	Lat 36.9112473, Long -1	107.3886337 NAD83
Elevations:	GROUND:	6261'
	KB:	6275'
Depths (KB):	PBTD:	7942'
	TD	00451

TD - 8015'

Date Prepared: 2/7/2024 Peace
Reviewed By: 2/14/2024 Moss
Last Updated: 5pud Date: 11/22/1980
Completion Date: 3/19/1981
Last Workover Date: 5

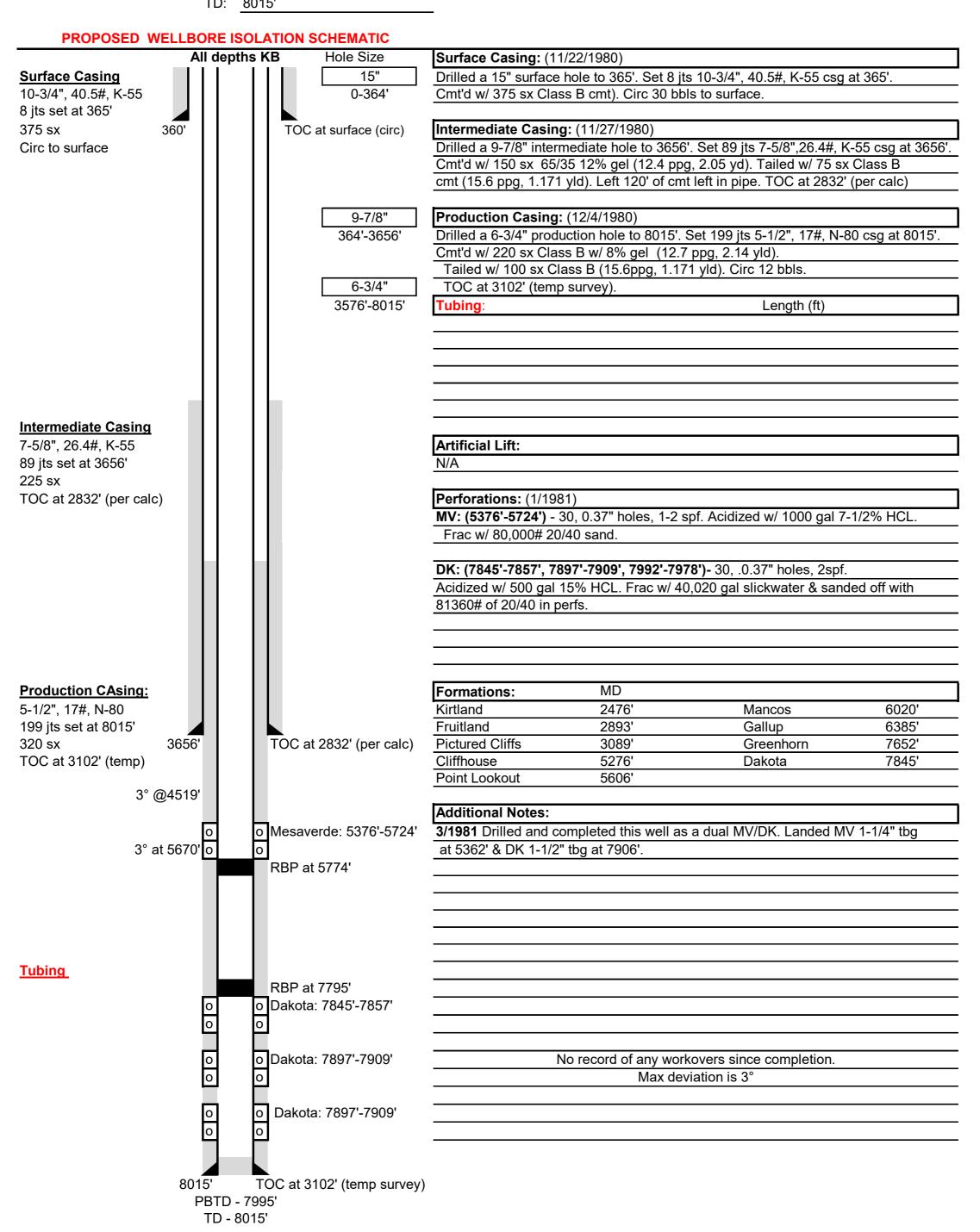


Page 21 of 24



# **Wellbore Schematic**

Well Name:	Rosa Unit 80	
Location:	K-08-31N-05W	1660' FSL & 1780' FWL
County:	Rio Arriba, NM	
API#:	30-039-22537	
Co-ordinates:	Lat 36.9112473, Lo	ong -107.3886337 NAD83
Elevations:	GROUND:	6261'
	KB:	6275'
Depths (KB):	PBTD:	7942'
	TD.	0015'





#### Wellbore Schematic

Well Name:	Rosa Unit 80	
Location:	K-08-31N-05W	1660' FSL & 1780' FWL
County:	Rio Arriba, NM	
API#:	30-039-22537	
Co-ordinates:	Lat 36.9112473, Lo	ng -107.3886337 NAD83
Elevations:	GROUND:	6261'
	KB:	6275'
Depths (KB):	PBTD:	7942'
	TD:	8015'

Date Prepared: 2/7/2024 Peace

Reviewed By: 2/14/2024 Moss

Last Updated: 5pud Date: 11/22/1980

Completion Date: 3/19/1981

Last Workover Date: 5/19/1981

#### TD: <u>8015'</u> PROPOSED WELLBORE SCHEMATIC All depths KB Hole Size Surface Casing: (11/22/1980) Surface Casing Drilled a 15" surface hole to 365'. Set 8 jts 10-3/4", 40.5#, K-55 csg at 365' 10-3/4", 40.5#, K-55 0-364 Cmt'd w/ 375 sx Class B cmt). Circ 30 bbls to surface. 8 jts set at 365' 360' 375 sx TOC at surface (circ) Intermediate Casing: (11/27/1980) Drilled a 9-7/8" intermediate hole to 3656'. Set 89 jts 7-5/8",26.4#, K-55 csg at 3656'. Circ to surface Cmt'd w/ 150 sx 65/35 12% gel (12.4 ppg, 2.05 yd). Tailed w/ 75 sx Class B cmt (15.6 ppg, 1.171 yld). Left 120' of cmt left in pipe. TOC at 2832' (per calc) Production Casing: (12/4/1980) 9-7/8" 364'-3656' Drilled a 6-3/4" production hole to 8015'. Set 199 jts 5-1/2", 17#, N-80 csg at 8015 Cmt'd w/ 220 sx Class B w/ 8% gel (12.7 ppg, 2.14 yld). Tailed w/ 100 sx Class B (15.6ppg, 1.171 yld). Circ 12 bbls. 6-3/4" TOC at 3102' (temp survey). 3576'-8015' Tubing Length (ft) (232) 2-3/8" 4.7# J-55 (1) 2-3/8" marker joint Intermediate Casing 7-5/8", 26.4#, K-55 Artificial Lift: 89 jts set at 3656' 225 sx TOC at 2832' (per calc) Perforations: (1/1981) MV: (5376'-5724') - 30, 0.37" holes, 1-2 spf. Acidized w/ 1000 gal 7-1/2% HCL Frac w/ 80,000# 20/40 sand. DK: (7845'-7857', 7897'-7909', 7992'-7978')- 30, .0.37" holes, 2spf. Acidized w/ 500 gal 15% HCL. Frac w/ 40,020 gal slickwater & sanded off with 81360# of 20/40 in perfs **Production CAsing:** Formations: MD 5-1/2", 17#, N-80 Kirtland 2476 Mancos 6020 199 its set at 8015' Fruitland 2893 6385 Gallup 3656' TOC at 2832' (per calc) 320 sx Pictured Cliffs 3089 Greenhorn 7652 TOC at 3102' (temp) Cliffhouse 5276 7845 Dakota Point Lookout 5606 3° @4519' Additional Notes: o Mesaverde: 5376'-5724' 3/1981 Drilled and completed this well as a dual MV/DK. Landed MV 1-1/4" tbg 0 at 5362' & DK 1-1/2" tbg at 7906' 3° at 5670' Tubing 2-3/8", 4.7#, J-55 o Dakota: 7845'-7857' 232 jts SN at ~7885' EOT at ~7890' o Dakota: 7897'-7909' o 0 0 No record of any workovers since completion Max deviation is 3° Dakota: 7897'-7909'

8015'

PBTD - 7995' TD - 8015'

TOC at 3102' (temp survey)

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

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 319887

### **COMMENTS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	319887
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

#### COMMENTS

Created By		Comment Date
dmcclure	DHC-5359	3/28/2024

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

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 319887

### **CONDITIONS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	319887
	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.	3/28/2024
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.	3/28/2024
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.	3/28/2024
dmcclure	The Operator shall calculate the oil and gas production average during the fourth year after the commencement of commingling, which shall be used to establish a fixed percentage of the total oil and gas production that shall be allocated to each of the Pools ("fixed percentage allocation plan"). No later than ninety (90) days after the fourth year, the Operator shall submit a Form C-103 to the OCD Engineering Bureau that includes the fixed percentage allocation plan and all data used to determine it. If the Operator fails to do so, this Permit shall terminate on the following day. If OCD denies the fixed percentage allocation plan, this Permit shall terminate on the date of such action. If OCD approves the percentage allocation plan with or without modifications, then the approved percentage allocation plan shall be used to determine oil and gas allocation starting on the date of such action until the Well is plugged and abandoned.	3/28/2024