

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

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.**

SEP 17 2019

5. Lease Serial No. NMSF 078766

6. If Indian, Allottee or Tribe Name

Farmington Field Office
Bureau of Land Management

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or C/A Agreement, Name and/or No.

8. Well Name and No. Rosa Unit 139B

9. API Well No. 30-045-31137

10. Field and Pool or Exploratory Area
Blanco Mesaverde / Basin Dakota

11. Country or Parish, State
San Juan County, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator LOGOS Operating, LLC

3a. Address 2010 Afton Place
Farmington, NM 87401

3b. Phone No. (include area code)
(505) 787-2218

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1895 FSL & 1885 FWL, NE/SW, K Sec 17 T31N R06W

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	Downhole Commingle
	<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 detennined that the site is ready for final inspection.)

LOGOS request to remove the packer and downhole commingle the Mesaverde and Dakota per the attached procedure and current wellbore diagram. The commingle authorization has been filed with NMOCD. (see attached)

NMOCD

SEP 24 2019

DISTRICT III

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Marie E. Florez

Title Regulatory Specialist

Signature

Date

09/16/2019

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petroleum Engineer

Title

Date

9/23/2019

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

FFO

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)

NMOCD

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Submit 1 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

Form C-103
Revised July 18, 2013

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.)		WELL API NO. 30-045-31137
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator LOGOS Operating, LLC		6. State Oil & Gas Lease No. NMSF 078766
3. Address of Operator 2010 Afton Place, Farmington NM 87401		7. Lease Name or Unit Agreement Name Rosa Unit
4. Well Location Unit Letter <u>K</u> : <u>1895</u> feet from the <u>FSL</u> line and <u>1885</u> feet from the <u>FWL</u> line Section <u>17</u> Township <u>31N</u> Range <u>06W</u> NMPM County <u>San Juan</u>		8. Well Number <u>139B</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6404'		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.

Pre-approved Pool Division Order R-13122.

Pools to be commingled: Blanco Mesaverde (72319) and Basin Dakota (71599).

Perforated Intervals:

Blanco Mesaverde: 5378' - 6286';

Basin Dakota 8186' - 8337'

Fixed percentage allocation based upon production data 44% Blanco Mesaverde and 56% Basin Dakota. This is based upon the historic production of both the Mesaverde and 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.

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

TITLE Regulatory Specialist

DATE 9/16/2019

Type or print name Marie E. Florez

E-mail address: mflorez@logosresourcesllc.com PHONE: 505-787-2218

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):



Down-hole Commingle Procedure

Rosa Unit 139B

1895' FSL & 1885' FWL
Section 17, T31N, R06W
San Juan County, New Mexico
LAT: 36.897482° N LONG: -107.488231° W
Mesaverde/Dakota

PROJECT OBJECTIVE:

Remove packer and 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. RU blow lines from casing valves to rig pit. Kill well if necessary. Blow casing pressure down if necessary.
3. ND wellhead. NU BOP.
4. Release Mesaverde tubing string. TOOH scanning and visually inspecting string. Lay down joints with visible holes and red banded and green banded tubing joints.
5. Release Dakota tubing string. Determine if long string will pull and sting out of packer. TOOH scanning and visually inspecting string. Lay down joints with visible holes and red banded and green banded tubing joints.
6. RIH with packer plucker to retrieve Model D Packer at 6400'. TOOH with packer plucker assembly and string.
7. RIH with single tubing string.
8. Run standing valve on shear tool, load tubing and pressure test to 500 psig. Swab back fluid from PT and retrieve standing valve.
9. Swab well in to unload.
10. Return to production as a Mesaverde/Dakota commingle.

PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Cumulative production was used to determine baseline allocations and baseline allocation was verified with recent average production history.

Cumulative Production

Total production from well	1,002.007 MMcf
Total MV production	441.844 MMcf
Total DK production	560.163 MMcf

MV allocation = MV production/total production = $441.844/1,002.007 = 44\%$

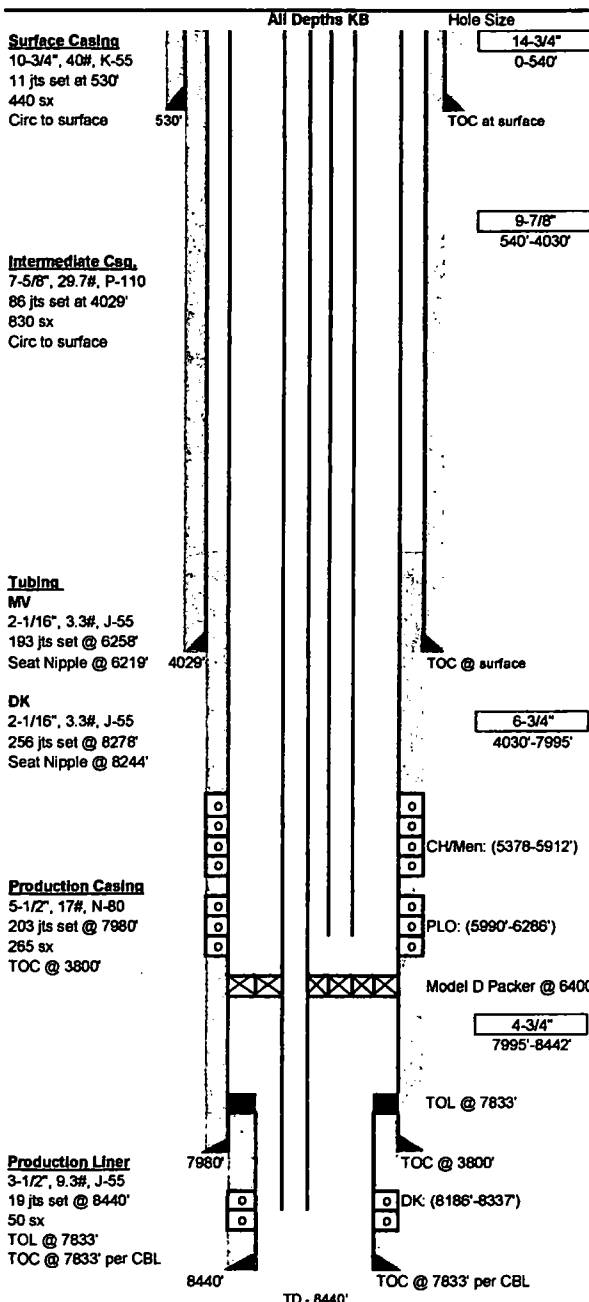
DK allocation = DK production/total production = $560.163/1,002.007 = 56\%$



Wellbore Schematic

Well Name: Rosa Unit 139B
 Location: Sec 17, T31N, R6W 1895' FSL & 1885' FWL
 County: San Juan
 API #: 30-045-31137
 Co-ordinates: Lat 38.897482 Long -107.488231
 Elevations:
 Depths (KB):
 GROUND: 6404'
 KB: 6416'
 PBTD: NA
 TD: 8440'

Date Prepared: 7/23/2019 Dickens
 Last Updated: 8/29/2019 Gomez
 Spud Date: 12/19/2004
 Completion Date: 5/18/2005
 Last Workover Date: n/a



Surface Casing: (12/19/2004)
 Drilled a 14-3/4" surface hole to 540'. Set 11 jts 10-3/4", 40#, K-55 casing at 530'.
 Cmt w/ 440 sx Type 3 + 2%CaCl2 + 1/4#/sk celloflake
 Displace w/ 48bbl H2O, circ 38 bbls cmt to surface

Intermediate Casing: (12/20/2004)
 Drilled a 9-7/8" intermediate hole to 4030'. Set 86 jts 7-5/8", 29.7#, P-110 casing at 4029'.
 Cmt lead w/ 730 sx Type 3 65/35 poz + 8% gel + 1% CaCl2 + 1/4#/sk celloflake.
 Cmt tail w/ 100 sx Type 3 + 1/4#/sk celloflake + 1% CaCl2
 Displace w/ 183 bbls fw, circ 80 bbls cmt to surface

Production Casing: (1/1/2005)
 Drilled a 6-3/4" production hole to 7995'. Set 203 jts 5-1/2", 17#, N-80 csg at 7980'.
 Cmt lead w/ 50 sx Type 3 65/35 POZ + 8% gel + 1% CaCl2 + 1/4#/sk celloflake
 Cmt tail w/ 215 sx Type 3 + 1/4#/sk celloflake + 1% CaCl2
 Displace w/ 185 bbls fw, TOC @ 3800'

Production Liner: (4/18/2005)
 Drilled 4-3/4" production hole to 8442'. Set 19 jts 3-1/2", 9.3#, J-55 tbg at 8440'.
 Cmt w/ 50 sx premium lite high strength FM cmt + 0.1% R-3 + 0.5% XLFC-5 + 1.75% pheno seal + 0.27% CD-32 + 0.87% FL-52 + 3% CSE
 TOC @ 7833' per CBL

Tubing: MV (5/17/2005)	Length (ft)
KB	12.00
(192) 2-1/16", 3.3#, J-55 tbg jts	6207.40
(1) 1.5" SN w/ pump out plug @ 6219'	0.6
(1) 2-1/16", 3.3#, J-55 tbg jt	32.00
(1) Perf sub	6

Set at: 6258.00 ft

Tubing: DK (5/16/2005)	Length (ft)
KB	12
(1) 2-1/16", 3.3#, J-55 tbg jt	32
(3) pup jts 6", 8", 10"	24
(197) 2-1/16", 3.3#, J-55 tbg jts	6324.5
(1) SBA seal assembly	6.1
(57) 2-1/16", 3.3#, J-55 tbg jts	1845.07
(1) 1.5" SN @ 8244'	0.6
(1) 2-1/16", 3.3#, J-55 tbg jt	32
(1) Mufeshoe	1.73

Set at: 8278 ft

Rods:

Pumping Unit

Perforations:

(5/5/2005) CH/Men (MV): (5378'-5912') 53, 0.34" holes, 1SPF
 Frac w/ Slickwater & 9840# LiteProp 125 sand tailed by 4100# 20/40 brown sand

(5/5/2005) PLO (MV): (5990'-6286') 50, 0.34" holes, 1SPF
 Frac w/ Slickwater & 9920# LiteProp 125 sand tailed by 5280# 20/40 brown sand

(5/2/2005) Dakota: (8186'-8337') 66, 0.34" holes, 3 SPF
 Frac w/ 60Q Lightning 22 x-link gel & 60,000# 20/40 Carbolite

Formations:			
Ojo Alamo-	2585'	Menefee-	5713'
Kirtland-	2725'	Point Lookout-	5973'
Pictured Cliffs-	3525'	Mancos-	6272'
Lewis-	3817'	Dakota-	8183'
Cliffhouse-	5663'		

Additional Notes:

No history of workovers