

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

Form C-103
 Revised July 18, 2013

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

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|--|
| WELL API NO. 30-045-31137 |
| 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. NMSF 078766 |
| 7. Lease Name or Unit Agreement Name Rosa Unit |
| 8. Well Number 139B |
| 9. OGRID Number 289408 |
| 10. Pool name or Wildcat Blanco Mesaverde / Basin Dakota |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6404' |

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 Gas Well Other

2. Name of Operator
LOGOS Operating, LLC

3. Address of Operator
2010 Afton Place, Farmington NM 87401

4. Well Location
 Unit Letter K : 1895 feet from the FSL line and 1885 feet from the FWL line
 Section 17 Township 31N Range 06W NMPM County San Juan

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| | | | |
|---|--|--|--|
| <p>NOTICE OF INTENTION TO:</p> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input checked="" type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: <input type="checkbox"/> | | <p>SUBSEQUENT REPORT OF:</p> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <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: 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.

DHC#5062

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 Marie E. Florez 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: [Signature] TITLE District III Geologist DATE 9/19/2019

Conditions of Approval (if any):

K P



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 = $441.844/1,002.007 = 44\%$

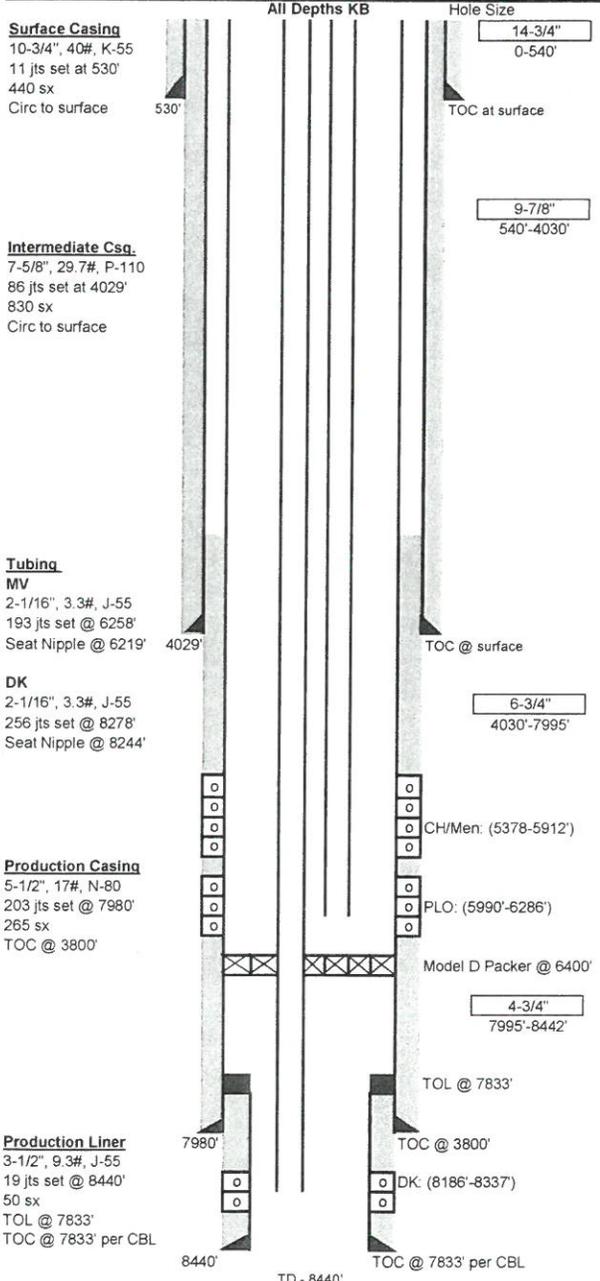
DK allocation = DK production/total production = $560.163/1,002.007 = 56\%$



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 36 897482 Long -107.488231
 Elevations: GROUND: 6404'
 KB: 6416'
 PBD: 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) Muleshoe | 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 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