

Submit a 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

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. 30-039-27597
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator LOGOS Operating, LLC		6. State Oil & Gas Lease No. E-3095
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>I</u> : <u>2605'</u> feet from the <u>FSL</u> line and <u>120</u> feet from the <u>FEL</u> line Section <u>32</u> Township <u>31N</u> Range <u>05W</u> NMPM County <u>Rio Arriba</u>		8. Well Number <u>026C</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6571'		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:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☒	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	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: 5566' - 6028'

Basin Dakota: 8040' - 8136'

Fixed percentage allocation based upon production data 57.6% Blanco Mesaverde and 42.4% 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 Marie E. Florez TITLE Regulatory Specialist DATE 7/19/2021

Type or print name Marie E. Florez E-mail address: mflorez@logosresourcesllc.com PHONE: 505-419-8420

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):



DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2021)

Rosa Unit 26C
30-039-27597
2605' FSL & 120' FEL
Section 32, T31N, R05W
Rio Arriba, New Mexico
LAT: 36.855999° N LONG: -107.3770523° 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. Rig up blow lines from casing valves to rig pit. Kill well if 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 Model D Packer at 6200'. Trip out of hole with packer plucker assembly and string.
7. Run in hole with single 2-3/8" production tubing string.
8. 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 allocations and allocations were verified with recent production history.

Cumulative Production

Cumulative production from well	894.6 MMcf
Cumulative MV production	515 MMcf
Cumulative DK production	379.6 MMcf

MV allocation = MV cumulative/total cumulative = $515/894.6 = 57.6\%$

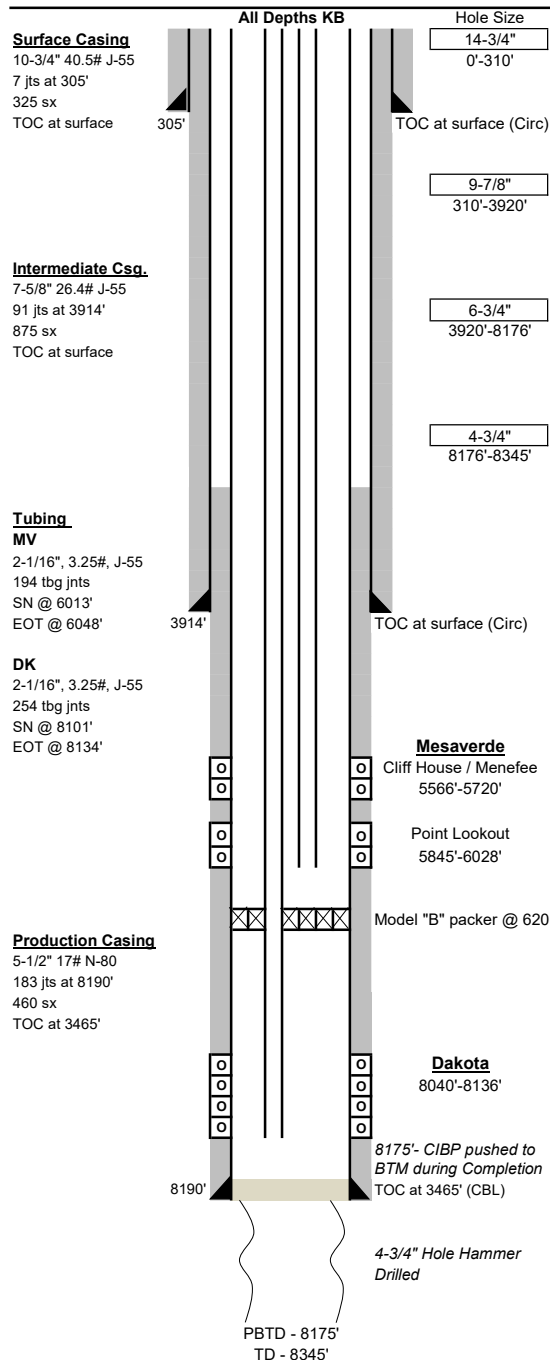
DK allocation = DK cumulative /total cumulative = $379.6/894.6 = 42.4\%$



Wellbore Schematic

Well Name: Rosa Unit 26C
 Location: Sec 32, T31N, R05W 2605' FSL & 120' FEL
 County: Rio Arriba
 API #: 30-039-27597
 Co-ordinates: Lat 36.855999°, -107.3770523°
 Elevations: GROUND: 6571'
 KB: 6585'
 Depths (KB): PBDT: 8175'
 TD: 8345'

Date Prepared: 7/6/2021 Gomez
 Reviewed by: 7/7/2021 Moss
 Spud Date: 7/2/2004
 Completion Date: 9/22/2004
 Last Workover Date: 9/27/2016
 Last Updated:

**Surface Casing: (7/2/2004)**

Drilled 14-3/4" surface hole to 310'. Ran 7 jts 10-3/4" 40.5# J-55 csg set at 305'.
 Cmt'd w/ 325 sx Type III (14.5 PPG). Circulated 35 bbls of cement to surface.

Intermediate Casing: (7/4/2004)

Drilled 9-7/8" intermediate hole to 3920'. Ran 91 jts 7-5/8" 26.4# J-55 csg set at 3914'.
 Cmt'd lead w/ 775 sx Premium Lt cmt (12.1 PPG). Cmt'd tail w/ 100 sx Type III cmt (134.7 cf).
 Circulated 30 bbls of cement to surface.

Production Casing: (7/10/2004)

Drilled 6-3/4" production hole to 7760' set kickoff plug at 7742' w/ 175 sx Class H cmt (17 PPG, 1.02 YL
 Drill w/ 6-3/4" bit to 7465'. Set another kickoff plug at 7465' w/ 440 sx Class H (17 PPG, 1.02 TLD).
 Tag cmt at 6157' and begin drilling sidetrack to 8176' w/ 6-3/4" bit. Run 183 jts 5-1/2", 17#, N-80 at 8190'
 Cmt lead w/ 50 sx Premium Lt HS (11.6 PPG) f/w 410 sx Premium LT HS (12.3 PPG).
 TOC at 3465' per CBL. After cmt'ing hammer drilled with 4-3/4" mill to 8345'.

Tubing: MV (9/27/2016)

Length (ft)	
KB	14
(193) 2-1/16", 3.25#, IJ J-55 tbg jnts	5998
(1) 1-1/2" Seat nipple	1
(1) 2-1/16", 3.25#, IJ J-55 tbg jnt	32
(1) Orange peel perf sub	3
Set at:	6048 ft

Tubing: DK (10/7/2004)

Length (ft)	
KB	14
(1) 2-1/16", 3.25#, IJ J-55 tbg jnts	32.3
(3) 2-1/6", 3.25#, IJ J-55 tbg subs (10', 8', 2')	20
(192) 2-1/16", 3.25#, IJ J-55 tbg jnts	6134
(1) 6" Seal bore assembly (2.688")	6
(60) 2-1/16", 3.25#, IJ J-55 tbg jnts	1895
(1) 1-1/2" Seat nipple	1
(1) 2-1/16", 3.25#, IJ J-55 tbg jnt	32
(1) Muleshoe collar	0
Set at:	8134 ft

Perforations: (9/22/2004)

Dakota: (8040'-8136') 3 SPF, 0.45" dia, 15" pen & 11.19 g charges.
 8040', 49', 54', 84', 88', 94', 8100', 6', 11', 22', 25', 32', 36'. Acidize w/ 1000 gal 15% HCl.
 Frac w/ 64000# 20/40 Econoprop sand in 60Q foam.

Mesaverde: Point Lookout- (5845'-6028') 1 SPF, 0.34" dia, 19" pen & 11 g charges.

5845', 48', 52', 56', 60', 64', 68', 72', 76', 80', 86', 92', 98', 5902', 6', 10', 14', 18', 24', 28', 34', 38',
 41', 44', 51', 57', 62', 67', 72', 76', 80', 84', 88', 94', 98', 6002', 8', 16', 22', 28'.
 Acidize w/ 1000 gal 15% HCl. Frac w/ 9300# 10/40 Lite Prop 125 f/w 5000# 20/40 Brown sand.
 2224 bbl SW.

Mesaverde: Cliff House/ Menefee- (5566'-5720') 1 SPF 0.34" dia, 19" pen & 11 g charges.

5566', 69', 5603', 5', 7', 9', 11', 15', 18', 22', 26', 30', 44', 49', 54', 58', 60', 62', 64', 75', 78', 82', 84', 86'
 93', 96', 98', 5706', 10', 20'. Acidize w/ 1000 gal 15% HCl.
 Frac w/ 9300# 14/30 Lite Prop 125 f/w 10800# 20/40 Brown sand in 2089 bbl SW.

Formations:

Ojo Alamo-	2714'	Gallup-	6707'
Kirtland-	2840'	Dakota-	8037'
Pictured Cliffs-	3414'		
Cliff House-	5579'		
Menefee-	5632'		
Point Lookout-	5839'		
Mancos-	6389'		

Additional Notes:

2011- MV tubing repair. Tubing showed pitting on collars and is worn thin. SN showed scale inside.
 No fill at 6200'.

2016- MV tubing repair. Pin ends show heavy pitting, replaced entire tubing string.

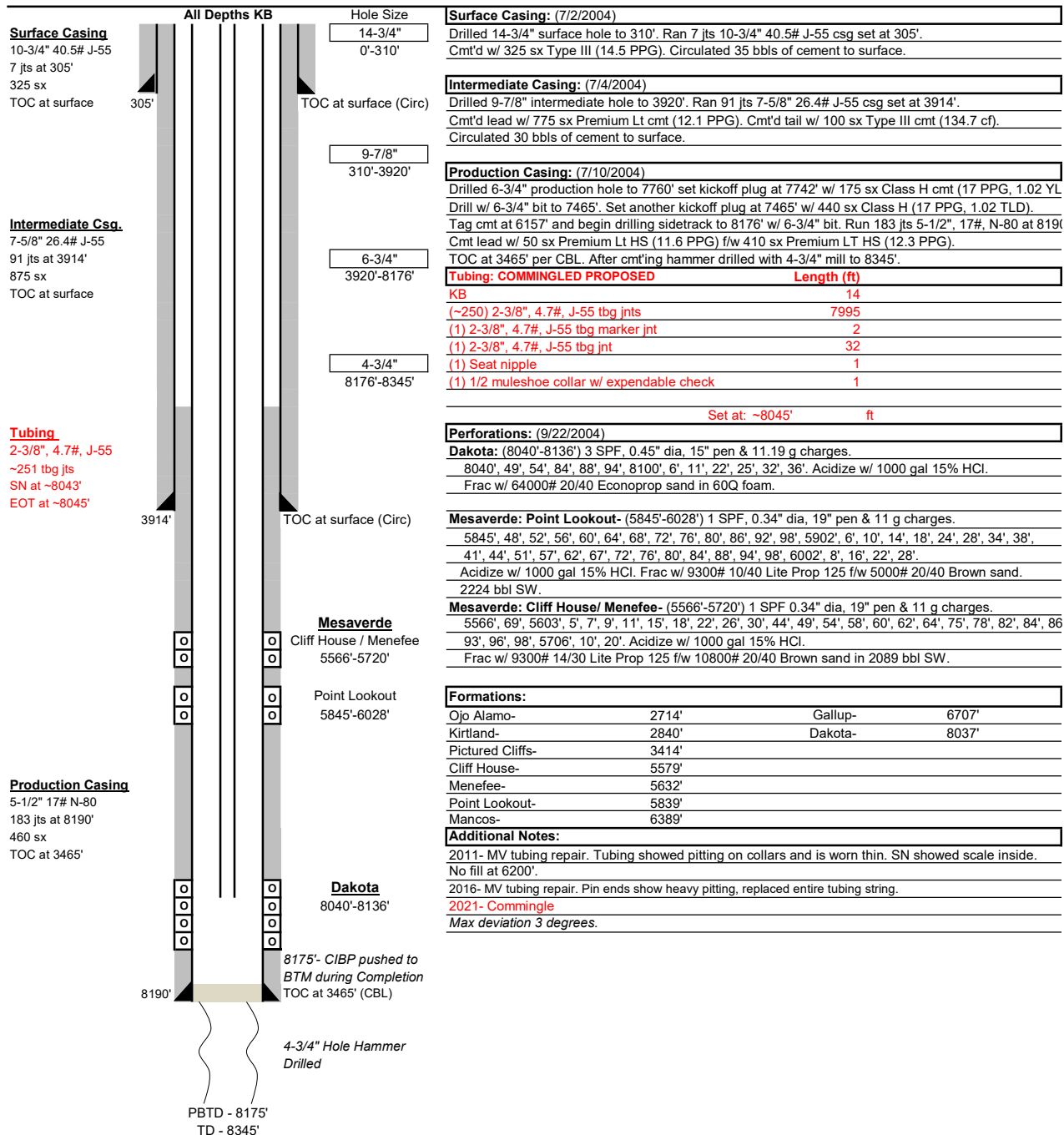
Max deviation 3 degrees.



PROPOSED- Wellbore Schematic

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COMMENTS

Action 37551

COMMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 37551
	Action Type: [C-107] Down Hole Commingle (C-107A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 7/27/2021	7/27/2021
kpickford	DHC-5134	7/27/2021

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	Action Number: 37551
	Action Type: [C-107] Down Hole Commingle (C-107A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	None	7/27/2021