

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

WELL API NO. 30-039-06291
5. Indicate Type of Lease STATE [] FEE []
6. State Oil & Gas Lease No. Jicarilla Contract 120
7. Lease Name or Unit Agreement Name Jicarilla 120 C
8. Well Number 004
9. OGRID Number 289708
10. Pool name or Wildcat Blanco P.C. South
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6785'

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 [x] Other []
2. Name of Operator LOGOS Operating, LLC
3. Address of Operator 2010 Afton Place, Farmington NM 87401
4. Well Location Unit Letter L : 1850 feet from the FSL line and 1000 feet from the FWL line
Section 29 Township 26N Range 4W NMPM County Rio Arriba

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 [x]
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 commingle: Blanco P.C. South (72439) Basin Fruitland Coal (71629).

Perforated Intervals:

Blanco P.C. South: 3350' - 3376'.

Basin Fruitland Coal: 3252' - 3280'.

Fixed percentage allocation based upon production data 99% Blanco P.C. South and 1% Basin Fruitland Coal. This is based upon the historic production of the Blanco P.C. South and a minor casing leak that has developed within the portion of the wellbore traversing the Basin Fruitland Coal formation.

Commingling will not reduce the value of reserves.

LOGOS Resources II, LLC owns 100% of the leasehold estate in both formations.

BLM & Jicarilla have been notified on a sundry notice form 3160-5.

DHC#5082

Spud Date:

[Empty box for Spud Date]

Rig Release Date:

[Empty box for 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 1/7/2020

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 3/6/2020

Conditions of Approval (if any):



Jicarilla 120 C 4
30-039-06291

1850' FSL & 1000' FWL
Section 29, T26N, R04W
Rio Arriba County, New Mexico
Lat 36.455481° Long -107.279774°
Fruitland Coal/Pictured Cliffs

PROJECT OBJECTIVE:

LOGOS Operating, LLC ("LOGOS") is operating the subject well in accordance with New Mexico Regulations Section 19.15.2.8(B) which states, in pertinent part, that "Operators... shall conduct their operations in or related to... operating [and] producing... in a manner that prevents waste of oil and gas." By commingling production from Fruitland Coal and Pictured Cliffs completions in the Subject Well, LOGOS will prevent waste of portions of the remaining gas reserves and will maximize recovery of minerals without jeopardizing the royalty interests and leasehold interests. LOGOS Resources II, LLC, owns 100% of the leasehold estate in both the Fruitland Coal formation and the Pictured Cliffs formation. The Jicarilla Apache Nation owns 100% of the minerals in the Fruitland Coal formation and the Pictured Cliffs formation with identical royalty rates attributable to both formations.

WORKOVER PROCEDURE:

1. On November 20, 2019, a slow leak was identified in the production casing in the Fruitland Coal. The failure was isolated between 3252' and 3280' with the Fruitland top being at 3155' and the Pictured Cliffs top being at 3380'.
2. It was attempted to repair the leak using a micro-matrix cement and high pressure squeeze. Upon drilling out the cement, initial pressure tests with the rig pump indicated that the leak had successfully been repaired. An MIT was scheduled with the proper regulatory agencies.
3. Upon conducting a charted pressure test, the casing was pressured to 560 psi and bled off to 500 psi in 27 minutes. A second pressure test was conducted in which the casing was pressured up to 580 psi and bled off to 515 psi in 30 minutes. Both pressure tests have been determined as failures by regulatory agencies.
4. LOGOS Resources II, LLC, owns 100% of the leasehold estate in both the Fruitland Coal formation and the Pictured Cliffs formation. The Jicarilla Apache Nation owns 100% of the minerals in the Fruitland Coal formation and the Pictured Cliffs formation with identical royalty rates attributable to both formations.

LOGOS Operating, LLC
Jicarilla 120 C 004
Commingle
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5. Because it is neither economically nor mechanically feasible to conduct additional attempts at shutting off the slow leak discussed in Item No. 1, LOGOS sought advice from both the NMOCD and the Jicarilla Oil and Gas Administration regarding the best process to avoid waste of Pictured Cliffs reserves. Considering advice from both agencies, LOGOS is applying for permission to downhole commingle production from the Fruitland Coal and Pictured Cliffs formations and thereby avoiding premature plugging and abandonment of the subject well.
6. The bridge plug used to isolate perforations during the casing repair will be removed, the tubing will be landed, and the well will be shut in pending approval of the downhole commingle.
7. Upon approval of the DHC, Logos will return the well to production.

PRODUCTION ALLOCATION

Historically, the well has produced only from the Pictured Cliffs formation. However, based on a minor casing leak that has developed within portion of the wellbore traversing the Fruitland Coal formation, it is anticipated that ~1 % of future wellbore production will be contributed by the FC zone.

Cumulative Production

Total production from well	925.330 MMcf
Total PC production	925.330 MMcf
Total FC production	0 MMcf

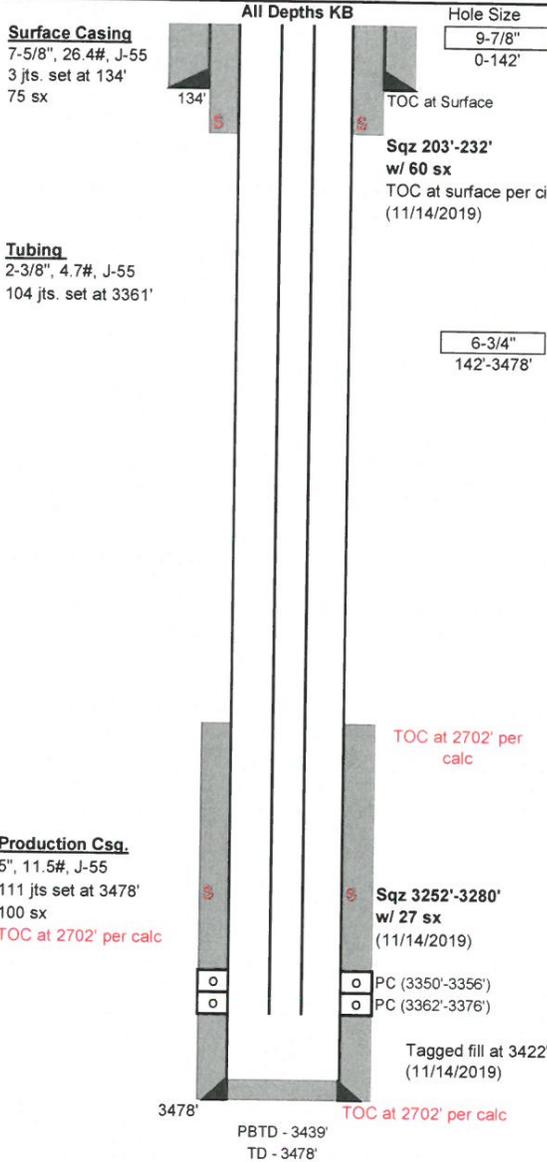
PC allocation = **99%**
FC allocation = **1%**



Wellbore Schematic

Well Name: Jicarilla 120 C 004
 Location: Sec 29, T26N, R04W 1850' FSL & 1000' FWL
 County: Rio Arriba
 API #: 30-039-06291
 Co-ordinates: Lat: 36.455481 Long:-107.279774
 Elevations: GROUND: 6785'
 KB: 6795'
 Depths (KB): PBD: 3439'
 TD: 3478'

Date Prepared: 3/31/2017
 Last Updated: 12/11/2019 Dickens
 Spud Date: 5/12/1957
 Completion Date: 5/30/1957
 Last Workover Date: 11/14/2019



Surface Casing: (5/12/1957)
 Drilled a 9-7/8" surface hole to 142'. Set 3 jts 7-5/8", 26.4#, J-55 casing at 134'.
 Cemented w/ 75 sx reg cmt + 2% CaCl2
 Circ to surface

Production Casing: (5/18/1957)
 Drilled a 6-3/4" production hole to 3478'. Set 111 jts 5", 11.5#, J-55 casing at 3478'.
 Cemented w/ 100 sx reg cmt
 TOC at 2702' per calc assuming 1.16 yield & 75% efficiency

** 2019 Casing repair, squeezed 203'-232' w/ 60 sx cmt, TOC of sqz at surface per circulation. Squeezed 3155'-3282' w/ 27 sx.

Tubing:	Length (ft)
KB	10.00
(1) 2-3/8" tbg jt	31.00
(2) 2-3/8" pup jts (8', 10')	18.00
(103) 2-3/8" J-55 tbg jts	3291.90
(1) 2-3/8" Marker jt (8')	8.00
(1) SN at 3360'	1.10
(1) Muleshoe collar	1.00

Set at: 3361.00 ft

Rods:
 NA

Pumping Unit
 NA

Perforations:
 (5/27/1957) Pictured Cliffs: (3350'-3356') & (3362'-3376') w/ 6 SPF
 Frac w/ 41,985 gal H2O & 30,000# 20/40 sand

Formations:	Depth
Ojo Alamo-	2906'
Kirtland-	3007'
Fruitland-	3155'
Pictured Cliffs-	3330'
Lewis-	3395'

Additional Notes:
 11/14/2019- Casing Repair, leaks from 203'-232' and 3252'-3280' were squeezed. Tagged fill at 3422'

**Well has a maximum deviation of 1-1/4 degrees @ 2790'