

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. 30-039-06291
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. Jicarilla Contract 120
3. Address of Operator 2010 Afton Place, Farmington NM 87401		7. Lease Name or Unit Agreement Name Jicarilla 120 C
4. Well Location Unit Letter <u>L</u> : <u>1850</u> feet from the <u>FSL</u> line and <u>1000</u> feet from the <u>FWL</u> line Section <u>29</u> Township <u>26N</u> Range <u>4W</u> NMPM County <u>Rio Arriba</u>		8. Well Number <u>004</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>6785'</u>		9. OGRID Number 289708
		10. Pool name or Wildcat Blanco P.C. South

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

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

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  
Page 2 of 2

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%

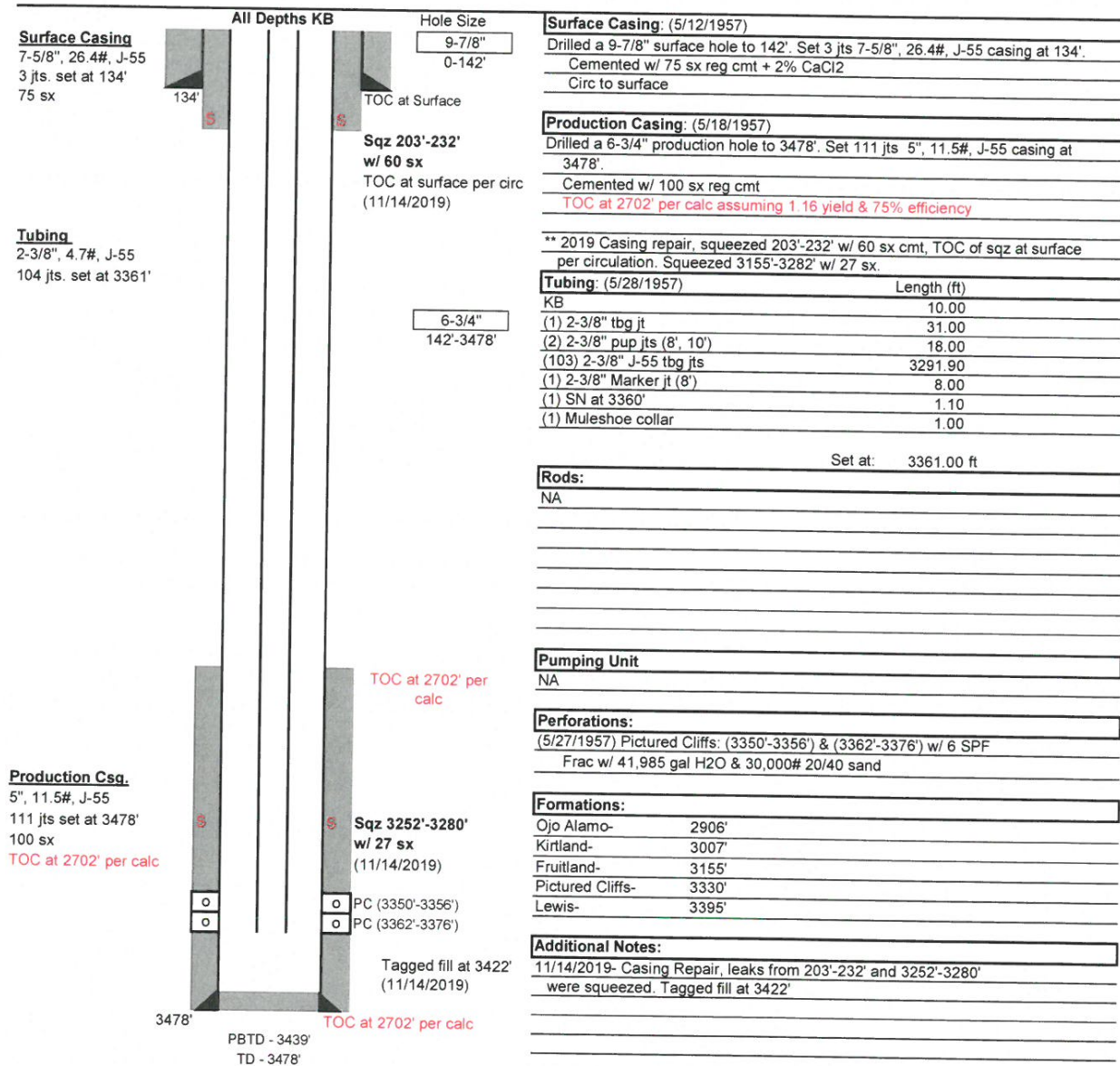




## Wellbore Schematic

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): PBTD: 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



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