

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

5. Lease Serial No.  
JIC120

6. If Indian, Allottee or Tribe Name  
JICARILLA APACHE

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. JICARILLA 120 C 4
2. Name of Operator LOGOS OPERATING LLC Contact: MARIE E FLOREZ E-Mail: mflorez@logosresourcesllc.com		9. API Well No. 30-039-06291-00-S1
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505-787-2218	10. Field and Pool or Exploratory Area SOUTH BLANCO
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T26N R4W NWSW 1850FSL 1000FWL 36.455441 N Lat, 107.280226 W Lon		11. County or Parish, State RIO ARRIBA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 recomplate 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 recompletion 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 determined that the site is ready for final inspection.

11/14/2019 Move to location. RU. 110# SICP, 110# SITP, 20# on BH. Blow down. ND WH. NU & function test BOP dressed w/ 1-1/4? rams, RU for 1-1/4? tbg. LD 108jts of 1-1/4? NU tbg. RU for 2-3/8? tbg. MU 4-1/2? bit & string mill. RIH 2jts of 62?, LD bit/string mill. MU 4-1/2? tension pkr, set pkr @ 30?. PSI test 5? casing and WH equip. to 560#, psi leaked 100# in 5mins. to 460#. Seal between BOP and WH had a small leak. Plan to ND and & change ring gasket and re-test in the AM. Release & LD pkr. SIFN

11/15/2019 RD 2-3/8? handling tools. ND BOP, replace ring gasket. NU & function test BOP. RU for 2-3/8? tubing. Set pkr @ 30?. PSI test WH to 560# pressure leaked off 30# in 30mins. LD tension pkr. MU 4-1/4? bit & string mill. TIH, PU 2-3/8? tbg to 3350?. TOOH, LD bit/string mill. PSI test 5? casing from RBP @ 3300? to surface to 500#, psi leaked off to 0# in 30 seconds. TOOH, LD setting

**NMOGD**  
**FEB 06 2020**  
**DISTRICT III**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #501958 verified by the BLM Well Information System  
For LOGOS OPERATING LLC, sent to the Rio Puerco  
Committed to AFMSS for processing by JOE KILLINS on 02/04/2020 (20JK0024SE)**

Name (Printed/Typed) MARIE E FLOREZ	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 02/04/2020

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>ACCEPTED</b>	Title JOE KILLINS PETROLEUM ENGINEER	Date 02/04/2020
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 Rio Puerco

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**NMOGD**

**Additional data for EC transaction #501958 that would not fit on the form**

**32. Additional remarks, continued**

tool. ND BOP. Trip out w/ retrieving tool the 5' csg cracked just above the slips. Called Big Red tool to repair. Set pkr @ 30'. PSI test down tbg to PSI test 5' casing from RBP @ 3300' to packer @ 30' to 500#, Psi leaked off to 0# in 30 seconds. LD pkr. NU WH SDFWE.

11/18/2019 Review w/ welder, WH tech and Crew. Install new WH equip. Set pkr @ 30' Psi test WH to 600# - Good test. TIH, set pkr @ 3280', 20' above RBP @ 3300'. Psi test DN tbg to 600# - Good test. Move, set pkr & PSI test multiple times to isolate csg leaks. 3218' to 3280'. PSI test csg to 500# pressure leaked off 300# in 5mins. Move pkr up to 1118', move pkr & PSI test DN csg to isolate csg leak 203' to 232', injection rate @ 1BPM @ 300# circulating out BH valve. TOOH, LD tension pkr. Drain pumps & lines. SDFN

Continued daily work from 11/19 - 12/2 is on attachment:

API: 30-039-06291

Jicarilla 120 C 004

11/19/2019 LOGOS notified & received approval from Joe Killins (BLM), Brandon Powell (OCD) and Orson Harrison (JOGA) to perform a sqz. TIH, w/ retrieving tool to 3240'. RU to swab. Lay DN swab tools. Release & TOOH w/ RBP, re- set RBP @ 500'. TOOH, LD setting tool. TIH, set tension pkr @ 470'. PSI test DN tbg to 600# - Good test. Release and TOOH, w/ pkr. Dumped 10gals of sand on top of RBP. Set pkr @ 60', held 500# on csg to surface. RU cementer to begin sqz. Break circ., w/ FW mixed & pumped 60sx (12.6bbls) of 15.8#, 1.18 yld Class G cmt w/ 2% calcium. Circulated cmt to surface. Closed BH valve. Psi increased to 600#, displaced w/ 3bbls of cmt remaining, Displaced w/ 1bbl of FW. SI well w/ 400# on tbg. PSI fell to 50#, bled off 50#, release and LD pkr. Sqz from surface w/ 3/4" bbls of FW. CMT locked up w/ 550# on csg. Actual cmt pumped 45sx (9.5bbls). SI well w/ 550#. WOC.

11/20/19 Bled off 150# SICP. MU 4-1/4" bit. TIH, PU (4) 3-1/8" drill collars, 1jt of 2-3/8" tbg. Tagged cmt @ 142'. RU swivel. Reverse circ., to DO cmt, 142' - 212' swivel in 3jts to 285'. Circ., CO. PSI test 5" csg., 500' to surface to 560# for 30 mins - Good test. TOOH, stand back collars. Lay bit. TIH, w/ retrieved tool. Reverse circ., to CO 10gals of sand off of RBP. Release & TIH, RBP, re-set RBP @ 3300'. Roll hole w/ FW. PSI test 5" csg from RBP @ 3300' to surface, to 560# PSI leaked off 360# in 5 mins to 200#. TOOH, LD setting tool. TIH w/ tension pkr, set pkr @ 3282', 18' above RBP @ 3300'. PSI test DN tbg to 600# - Good test. Move pkr up to 3250', PSI test DN tbg to 560# - test failed. TIH, re-set pkr @ 3282' to re-test tool, tested to 600# - Good test. TOOH, 10stands & set pkr @ 2647'. PSI tested DN csg to 560# - test failed. TOOH, 10 stands. SI well. Drain pumps & lines. SDFN

11/21/2019 Change pipe ram rubbers. Rebuild test Manifold. Moved pkr & tested multiple times to isolate csg leak between 176' and 212'. PSI tested to 560#, PSI leaked off from 560# to 300# in 3 mins. TOOH, LD tension pkr. TIH, w/ retrieving tool to 3270'. RU to swab, swab fluid off to RBP. Release & move RBP to 3155'. Roll hole w/ FW. TOOH, LD retrieving tool. TIH, & set tension pkr @ 264' to 3155' to 560# for 30 mins - Good test. Opsi leak off. Isolated lower csg leak 3250' to 3282'. Release & LD tension pkr. Drain pumps & lines. SI well. SDFN.

11/22/2019 LOGOS notified & received approval from Joe Killins (BLM), Brandon Powell (OCD) and Orson Harrison (JOGA) to perform a 2nd sqz by running a micro matrix cmt over both leaks. TIH, w/ retrieving tool to 3120'. RU swab. Swab fluid off of RBP. Release & move RBP to 3318'. Roll hole w/ FW. TOOH, LD retrieving tool. Dumped 10gals of sand on top of RBP. TIH, open ended to 3280'. RU cementers. Mixed & pumped 27sx (3.64bbls) of 13.5#, .76 yld ultra-fine cmt. Displaced w/ 11.5bbls of FW. TOOH, spotted balance plug from 3280' to 3100'. TIH, & set tension pkr @ 290'. Pumped 5.5bbls of FW to load hole. Bled off 600#, release & TOOH, w/ pkr. TIH, open ended to 123'. RU cementer, mixed & pumped 27sx (3.64bbls) of 13.5#, .76yld ultra fin cmt, displaced w/ 1bbls of FW. Hesitate sqz to 600# w/ 1/4bbls of FW. Bled off 600# SICP. TIH, open ended to 90' reverse circ., cmt out. TOOH, 3jts left balanced plug from 23' to 90'. SI well. Shut down until Monday.

12/2/2019 MU 4-1/4" bit. TIH, w/ 3-1/8" drill collars. Tagged cmt @ 96'. TU swivel. DO cmt from 96' to 213'. Swivel in 2jts to 278'. Circ., & CO. PSI test 5" casing (top sqz 90' to 213') to 560# - Good test. Set

back swivel. TIH, w/ 4-1/4" bit. Tagged cmt @ 3140'. RU swivel. DO cmt, 3140' to 3303', circ., & CO. Psi test 5" csg (bottom sqz 3155' to 3280') to 560# - good test. Drain pumps & lines. SDFN.

12/3/2019 Break circulation to condition well. Psi test 5" csg from RBP 3312' to surface to 580# record test for 27mins. - Test failed. Lost 60#. Re-test to 2850# for 30mins, lost 65# in 30mins. Witness by Thomas Vermersch (OCD) & Orson Harrison (JOGA). TOOH, LD 3-1/8" drill collars & 4-1/4" bit. TIH, w/ retrieving tool. Notified OCD, BLM & JOGA and received verbal approval to proceed and apply for a DHC. RU swivel, reverse circulate to CO top of RBP. Work pipe. Attempt to latch on the RBP. Could not get over retrieving neck on RBP. Set back swivel. TOOH. Retrieving tool is wore from metal debris on top of RBP. Drain pumps & lines. SDFN.

12/4/2019 RIH, w/ 3-7/8" magnet on sandline, made 2 runs, recovered small metal shavings. MU 4-1/4" shoe, TIH, to RBP @ 3312'. RU swivel. Reverse circ., to CO over fishing neck on RBP. Recovered large metal shavings. TOOH, LD wash over shoe. TIH, w/ retrieving tool. Release and TOOH, w/ RBP. LD RBP. TIH, w/ prod. Tbg. Tagged fill @ 3422'. PBD @ 3439'. RU sandline to run 1.901" broach. SI well. Drain pumps & lines. SDFN.

12/5/2019 RIH, w/ 1.901" broach to SN @ 3360'. Landed 1jt of 2-3/8" J-55tbg, 8', 10' pump jts, 103jts of 2-3/8", J-55 of tbg @ 3361', 2' marker jt, 1jt of 2-3/8" J-55 tbg, 1.78" SN w/ mule shoe collar. PBD @ 3439'. ND BOP. NU WH. RU to swab. Made 8 runs. Recovered 4bbls of water. Fluid level @ 3270'. RD swab equip. SI well. RD move on freeze in the AM.

*Tubing weight?*

LOGOS will return well to production upon DHC approval.