

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.***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		5. Lease Serial No. JIC123
2. Name of Operator LOGOS OPERATING LLC Contact: MARIE E FLOREZ E-Mail: mflorez@logosresourcesllc.com		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505-787-2218	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 6, T25N R4W NWSE 1800 FSL & 1580 FEL 36.426070 N Lat, -107.288800 W Lon		8. Well Name and No. JICARILLA 123 C 028
		9. API Well No. 30-039-22558
		10. Field and Pool or Exploratory Area LINDRITH GALLUP-DAKOTA, WEST BLANCO MESAVERDE
		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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 recompleat 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 recompleat 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.

The subject well is Plugged and Abandon on 11/13/2019 per attached report and final wellbore schematic.

NMOC

DEC 02 2019

DISTRICT III

14. I hereby certify that the foregoing is true and correct. Electronic Submission #493835 verified by the BLM Well Information System For LOGOS OPERATING LLC, sent to the Rio Puerco Committed to AFMSS for processing by JOHN HOFFMAN on 11/29/2019 (20JK0003SE)	
Name (Printed/Typed) MARIE E FLOREZ	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 11/26/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JOHN HOFFMAN Title PETROLUEM ENGINEER	Date 11/29/2019
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 ****

NMOC

4

Well Name: Jicarilla 123 C 28
API: 30-039-22558

11/6/2019 Notified & received verbal approval from Brandon Powell (OCD) & Joe Killins (BLM) to pump 1st plug. RU WL, RIH & set CIBP @ 7386'. LD setting tool. RIH, run CBL from 7386' – 6426', 4000'-2000'. TIH, open ended w/ 2-3/8" tbg. Tagged CIBP @ 7386'. Pulled up to 7385'. RU cementer. Plug #1 – (Gallup-Dakota Interval) Pumped 10bbls of FW. Mix & pumped 12sx (2.4bbls, 15.8#, 1.15 yield) Class G cement from 7187' – 7385'. Displaced w/ 28bbls of FW. Drain pumps & lines. SDFN. WOC.

11/7/2019 TIH, tagged TOC @ 7187'. TOOH, w/ 2-3/8" tbg. RU WL. RIH & perforate 3SPF @ 6526'. POOH. TIH, w/ 4-1/2" CICR set retainer 6476'. RU cementers. Pressure test to 1500# - Good test. Plug #2 – (Gallup-Dakota Interval) Pumped 10bbls of FW. Mix & pumped 30sx (16.6bbls, 15.8#, 1.15 yield) Class G cement from 6266' – 6526'. Displaced w/ 24bbls of FW. (BLM witnessed Bill Diers) Sting out of retainer. RD. SDFN. WOC.

11/8/2019 Notify & received verbal approval from Brandon Powell (OCD) & Joe Killins (BLM) to adjust plug 3. Tagged TOC @ 6266', 160' above minimum @ 6426'. TIH, w/ CICR set retainer @ 5400'. RU cementers. Plug #3 – (Mancos / Point look Interval) Pumped 2bbls of FW. Mix & pumped 55sx (11.3bbls, 15.8#, 1.15 yield) Class G cement w/ 2% calcium from 5140' – 5670'. Displaced w/ 23bbls of FW. (BLM witnessed Bill Diers) WOC.

TIH, tagged 5140', 249' above minimum TOC @ 5349'. LD jts. TOOH, LD setting tool. RU WL. RIH, & perforate 3SPF@4994'. RU cementers. Plug #4 – (Cliff house / Menefee Interval) Pumped 12bbls of FW. TIH, w/ CICR set retainer @ 4915'. (Retainer depth change from 4994' to 4915' per BLM Bill Diers) Mix & pumped 48sx (9.9bbls, 15.8#, 1.15 yield) Class G cement from 4816' – 4994'. Displaced w/ 18.4bbls of FW. Reverse circulation 23bbls of FW. SDFW. Drain pumps & lines. WOC.

11/11/2019 TIH, tagged TOC @ 4816'. LD jts. TOOH. RU WL. RIH, & perforate 3SPF @ 4182'. Pumped down casing to establish injection rate. TIH, w/ CICR set retainer @ 4132'. RU cementers. Plug #5 – (Chacra Interval) Mix & pumped 36sx (7.4bbls, 15.8#, 1.15 yield) Class G cement w/ 2% calcium from 3949' – 4182'. Displaced w/ 14.7bbls of FW. Sting out of retainer. LD jts. TOOH, w/ 2-3/8" LD setting tool. TIH. (BLM witnessed Bill Diers) WOC.

PU 3jts of 2-3/8" tbg, tagged TOC @ 3949'. LD 27 jts of 2-3/8". EOT @ 3292'. RU cementers. Plug #6 – (Fruitland Coal / Pictured Cliffs Interval) Pumped 15bbls of FW. Mix & pumped 26sx (5.4bbls, 15.8#, 1.15 yield) Class G cement from 2932' – 3292'. Displaced w/ 11.6bbls of FW. LD 14jts of 2-3/8" tbg. EOT @ 2865' Reverse circulate 15bbls of FW. Drain pumps & lines. SDFN. (BLM witnessed Bill Diers) WOC.

11/12/2019 Notify & received verbal approval from Monica Keuhling (OCD) & Joe Killins (BLM) to adjust plug 7 & 8. TIH, tagged TOC @ 2932'. LD 15jts. TOOH, w/ 2-3/8" tbg. RU WL. RIH, & perforate @ 2907'. (WL tagged TOC @ 2907'.) Establish injection rate from surface. TIH, w/ CICR set retainer @ 2846'. RU cementers. Plug #7 – (Ojo Alamo / Kirtland Interval) Mix & pumped 66sx (13.6bbls, 15.8#, 1.15 yield) Class G cement w/ 2% calcium from 2678' – 2907'. Displaced w/ 7bbls, 2bbls shy of calculated displacement of 9bbls. Sting out of retainer. LD jts. TOOH, LD setting tool. TIH, open ended to 2342'. (BLM witnessed Bill Diers) WOC.

Well Name: Jicarilla 123 C 28
API: 30-039-22558

TIH, tagged TOC @ 2678'. LD 37jts of 2-3/8" tbg. EOT @ 1688'. RU cementers. Break circulation w/ FW. Plug #8 – (Nacimiento Interval) Mix & pumped 12sx (2.5bbls, 15.8#, 1.15 yield) Class G cement from 1513' – 1688'. Displaced w/ 5.4bbls of FW. LD 4jts of 2-3/8" tbg. TOOH. SDFN (BLM witnessed Bill Diers) WOC.

11/13/2019 TIH, tagged TOC @ 1513'. LD 46jts of 2-3/8" tbg. EOT @ 283'. Break circulation w/ FW. Plug #9 – (Surface Interval) Mix & pumped 37sx (7.6bbls, 15.8#, 1.15 yield) Class G cement w/ 2% calcium from 0' – 283'. Circulate good cement to pit. LD 9jts of 2-3/8" tbg. Notify & received verbal approval from Brandon Powell (OCD) & Joe Killins (BLM) to leave plug 9 as an inside plug only. Cut off WH. Mix & pumped 14sx (2.8bbls, 15.8#, 1.15 yield) Class G cement w/ 2% calcium to top off 4-1/2" casing. WOC. Weld on P&A marker. RD to move off. (BLM witnessed Bill Diers)

CURRENT SCHEMATIC



Wellbore Schematic

Well Name: Jicarilla 123 C 28
 Location: Sec 06, T25N, R04W 1800' FSL & 1580' FEL
 County: Rio Arriba
 API #: 30-039-22558
 Co-ordinates: Lat 36.426292° Long -107.288537°
 Elevations: GROUND: 6827'
 KB: 6838'
 PBD: 7725'
 TD: 7741'

Date Prepared: 7/11/2019
 Last Updated: 11/22/2019 KD
 Spud Date: 8/21/1981
 Completion Date: 10/16/1981
 Last Workover Date: 4/15/2019

Surface Casing

9-5/8", 40#, K-55
 5 jts, set at 232'

10/2019 Squeeze Work

Identified holes in casing ~200'-1445'
 Cmt w/ 473 sx (100 bbl) circulated cement to surf & closed BH to continue cmt. Attempted to hesitate Drill out & cmt w/ balance plug @ 1015' -1456'. Squeezed 1 bbl into form & held 500 psi. Drill out & did not PT.

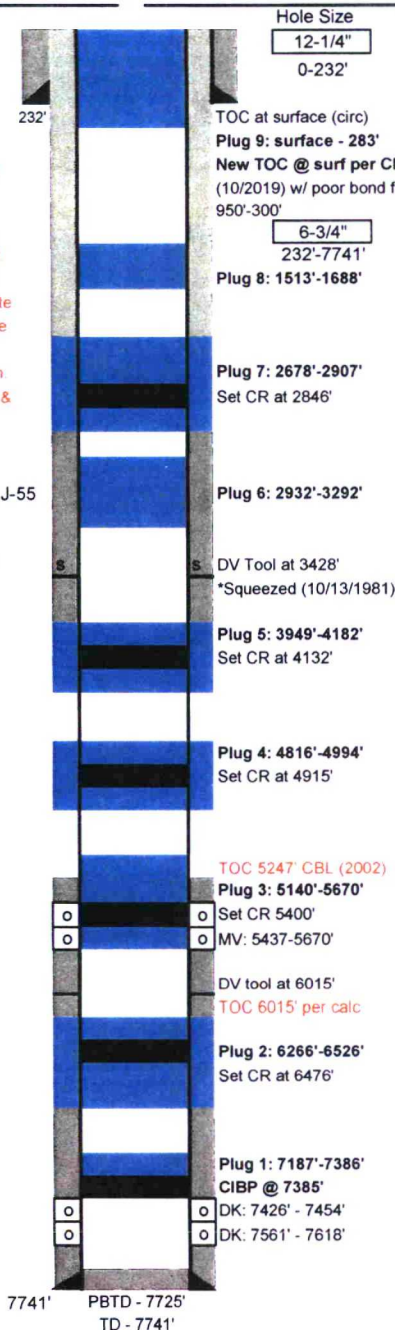
Production Casing

4-1/2", 10.5# & 11.6#, J-55
 199 jts, set at 7741'
 1st Stg TOC at 6015'
 2nd Stg TOC at 5247'
 3rd Stg TOC at 1100'

Tubing

2-3/8", 4.7#, J-55
 246 joints
 EOT at 7596'
 SN at 7564'

Lost multiple tools downhole. 4/2019



Surface Casing: (8/21/1981)

Drilled a 12-1/4" surface hole to 232'. Set 5 jts 9-5/8", 40#, K-55 casing at 232'. Cemented w/ 236 cf cement. Circulated to surface.

Production Casing: (9/6/1981)

Drilled a 6-3/4" production hole to 7741'. Set 4-1/2", 157 jts 10.5# & 42 jts 11.6#, K-55 casing at 7741'. Stage tools set at 3428' & 6015'. Sqz'd cmted D.V tool at 3428'. 1st stage - Lead cmt w/ 240sx Class B + 65/35 POZ + 6% gel + 2% CaCl2. Tail cmt w/ 100sx Class B + 50/50 POZ + 2% gel + 2% CaCl2 + 1/4#/sk tuf plug. **TOC at 6015' per calc (1.16 yield and 75% efficiency)** 2nd stage - Cmt w/ 340sx Class B + 65/35 POZ + 6% gel + 2% CaCl2. TOC at 5247' per CBL 2/27/02. 3rd stage - Cmt w/ 265sx Class B + 65/35 POZ + 6% gel + 2% CaCl2. TOC at 1100' per TS 9/7/81.

Tubing: Remove 10/2019 Length (ft)

Rods:

Pumping Unit:

**Plunger Lift

Perforations:

(10/16/81) DK: 7426', 39', 54', 7561', 70', 91', 7601', 07', 12', 18'. 1SPF Frac w/ 38,000 gal gel & 57,500# 20/40 sand & 24,000# 10/20 sand. (2/27/02) Point Lookout 5437'-5670'. 0.34", 35 holes. Acidize w/ 1000 gals 15% HCL Frac w/ 95175 gals 60Q slickwater foam & 89400# 20/40 sand.

Formations:

Nacimiento	1630'	Menefee-	4944'
Ojo Alamo-	2799'	Point Lookout-	5439'
Kirtland-	2893'	Mancos-	5630'
Fruitland-	3060'	Gallup-	6476'
Pictured Cliffs-	3235'	Greenhorn-	7342'
Chacra Mesa-	4132'	Dakota-	7553'
Cliff House-	4915'		

Additional Notes:

10/13/1981 Casing did not hold PT, squeezed DVT through cmt retainer at 3235' w/ 100sx Class B + 2% CaCl2.
 10/16/1981 DK was completed under a packer due to squeeze job
 12/23/1997 500 gal 15% HCL acid treatment down tubing
 2/27/02 MV Pay Add & Comm. *Casing held PT to 3000 psig. MV was completed through tubing under a packer
 12/22/02 Swab: Spring off of bottom of fishing tool, lost and left in hole.
 6/29/04 Swab: Obstruction at 6700'. Tight spot, broached out tight tbg to 6550'. Tight spot at 6700' to SN.
 4/15/19 Swab: csg 0# / tbg 0# FL at 3800'. Scale cutting down cups as swab going deeper, scale building up. Tag at 6831' w/ 1.9 gauge, tag at 6831' w/ 1.75 Impression. Pull plunger, try pulling what is thought is BS at 6831'. Pull up to 6744' got stuck. Try to shear pulling tool and cannot shear. **Lost tools downhole: 2" JDC, 1-1/2" spang jars, (2) 1-1/2" weight bars, (3) 1-1/2" kunckles, 1-1/2" swivel, 1-1/2" rope socket.** Final FL at 5600'