

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. JIC 123

6. If Indian, Allottee or Tribe Name
Jicarilla Apache

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

8. Well Name and No. Jicarilla 123 C 27

9. API Well No. 30-039-22071

10. Field and Pool or Exploratory Area
Blanco Mesaverde / West Lindrith Gallup-Dakota

11. Country or Parish, State
Rio Arriba County, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator LOGOS Operating, LLC

3a. Address 2010 Afton Place
Farmington, NM 87401

3b. Phone No. (include area code)
(505) 324-4145

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1540' FNL 1670' FWL, SE/NW, F Sec 6, T25N, R04W,

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 detennined that the site is ready for final inspection.)

The subject well was plugged and abandoned on 11/6/2017 per the attached report and notifications.

ACCEPTED FOR RECORD

NOV 27 2017
FARMINGTON FIELD OFFICE
BY: J. Madan

OIL CONS. DIV DIST. 3

NOV 29 2017

RECEIVED

NOV 17 2017

Farmington Field Office
Bureau of Land Management

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Tamra Sessions

Regulatory Specialist

Title

Signature

Date

11/17/2017

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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)

NMOCDA



LOGOS RESOURCES, LLC

2010 Afton Pl
Farmington, NM 87401

P.O. Box 1979, Farmington, NM 87499
(505) 325-2627

Jicarilla 123 C 27
API:30-039-22071, 11/14/2017

Well Plugging Report

Cement Summary

NOTIFY – Bryce Hammond W/ Jicarilla Oil & Gas at 4:00 PM that P&A will start on 10-27-17

Plug #1 – (Dakota & Gallup) from 6578' – 6478' w/16 sxs 18.88 CF, 3.36 bbls slurry. Tagged TOC @ 6368'

Plug #2 – (Gallup Top) Unable to pump into squeeze holes @ 6299'. BLM Rep on location approved from 6251' – 6151' w/20 sxs, 2%calc., 23.6 CF, 4.20 bbls slurry. Tagged TOC @ 5981'

Plug #3 – (Mancos Top) from 5725' to 5200' TOC. Mix and pump 40sxs of class B cement @ 2%, 47.2cf, 15.6ppg, 1.18 yield, 8.4 bbl slurry. Wait on cement for 4 hours. NMOCD (Brandon Powell), BLM (M. Gilbreath & J. Dobson), Logos (J. Robinson) approved inside plug on 10/31/17 @ 10:00 AM. BLM requested CBL be run after Plug #3.

Plug #4 – (Mesaverde Top) from 4947' - 4684' TOC, mix and pump 20sxs of class B cement, 15.6 ppg, 1.18 yield, 4.2 bbls slurry. Wait on cement 4 hours.

Plug #5 – (Chacra Top) from 4160' - 3897' mix and pump 20sxs of class B cement, 15.6 ppg, 1.18 yield, 4.2 bbls slurry. Wait on cement overnight.

Plug #6 – (Pictured Cliffs, Fruitland, Kirtland, Alamo Top) from 3257' - 2572' TOC. Mix and pump 52sx of class B cement, 15.6 ppg, 1.18 yield, 61.36cf, 10.9 bbls slurry. Wait on cement 4 hours. Approved by NMOCD (Charlie Perrin) @ 2:00 PM

Plug #7 – (Nacimiento Top) from 1373' - 1215' TOC. Mix and pump 12sxs of class B cement, 14.16cf, 1.18 yield, 15.6 ppg, 2.52 bbls slurry. NMOCD (Charlie Perrin) approved to pump inside plug and Jicarilla Oil & Gas (Bryce Hammond), BLM @ 3:30 PM to spot 12sxs above retainer.

Plug #8 – (Casing Holes) Plug was added and approved by NMOCD (Brandon Powell), Jicarilla O&G (Bryce Hammond), BLM @ 8:00 AM.

Plug #9 – (Surface) from 273' - 0'. Mix and pump 117sxs of Class B cement, 138cf, 1.18 yield, 15.6 ppg, 24.5 bbls slurry. Circulate cement to surface. Shut BH, squeeze 8 sxs, Shut in well with 350 PSI. Top off 4.5" with 8 sxs of class B cement, 9.44 cf, 1.18 yield, 15.6 PPG, 1.68 bbls slurry. Weld on cap and P&A marker.

Work Detail

PUX Activity

10/23/2017

- | | |
|---|--|
| P | Rode rig & equipment to location, spot rig & equipment. RU rig & pump truck. |
| P | CK PSI, SI tubing pressure - 10 PSI, SI casing pressure - 50 PSI, SI bradenhead pressure - 50 PSI, Blow down tbg, then casing w/no effect on BH. ND WH, NU BOP & PT pipe rams to 1500 psi, held ok. RU floor & tongs, Pump 18 bbls down tbg; tbg pressured up to 1000 psi. |
| P | PU on tbg & LD 1 jt w/tbg hanger. Tally & pick up 8 jts., 2 3/8 tbg, LD 8 jts. |
| X | POOH w/20 stands, tbg standing full of water, RU swab tools & swab down tubing in to casing. POOH w/tbg, found tbg w/ water, swab down again. SI well & Secure. Shut down for day. |

10/24/2017

- P Travel to location. Service, start rig & equipment. Hold safety meeting on JSA.
- P CK PSI, SI bradenhead pressure - 40 PSI, SI tubing pressure - 0 PSI, SI casing pressure - 80 PSI; blow down well, BH never stopped blowing about 5 PSI. PU swabbing tools & swab down tbg. LD swab tools & PU tongs.
- P POOH w/tubing & tally 118 stands & 1 single, 237 jts., 2.375 EUE tbg, 1 SN, 1-8' 2 375 Sub w/ muleshoe.
- P PU 1-Select RBP & packer. TIH set RBP at 5360', LD 1 jt. & load csg. Circulate clean w/100 bbls. Set packer @ 5298' and attempt to test RBP, small leak off. Check all tools & test again. Same leak off. Pull out of hole w/ RBP at 5298' & packer at 5266', test w/ same leak off. Drop standing valve & test tbg to 1000 psi, held good, fish standing valve. Pull out of hole, set RBP at 3208' w/packer at 3170'. SI well & secure. Shut down for day.

10/25/2017

- P Travel to location. Service, start rig & equipment. Hold safety meeting on JSA.
- P CK PSI, SI bradenhead pressure - 30 PSI, SI tubing pressure - 0 PSI, SI casing pressure - 0 PSI; Casing on vac. Wait on water.
- P Load casing w/45 bbls, set packer at 3170'. Test good from 3202' - 3170', test at 2202'. No test above & below. POOH & LD packer. Pick up 4.5 tension packer, Trip in hole to 234'. Test good above packer, keep testing & found bad casing from 3106' - 243'. POOH & LD packer. Establish rate at 2BPM at 200 PSI.
- P Wait on orders. SI well & drain up. Secure well. Shut down for day.

10/26/2017

- P Travel to location. Service and start rig & equipment. Held safety meeting on JSA.
- P CK PSI; SI bradenhead pressure - 15 PSI, SI tubing pressure - 0 PSI, SI casing pressure - 0 PSI. PU 1 RBP & packer, Trip in hole & set RBP at 3082', Pull up hole and set packer at 3050', test good. Pull up hole & test casing up to 1461' at 300' intervals, casing leaks from 3050' - 1461'. Pull out of hole w/RPB & packer.
- P Run CBL from 3180' - Surface.
- P PU retrieving tool, Run in hole & latch on to RBP at 3202'. Pull out of hole with tools. Shut in well. Secure well, Shut down for day.

10/27/2017

- P Travel to location. Service & start rig & equipment. Held safety meeting on JSA.
- P CK PSI; SI bradenhead pressure - 60 PSI, SI casing pressure - 55 PSI, no tbg in well. Trip in hole w/13 stands & LD 26 jts., PU 1 - 4.5 WD CR & Trip in hole w/tbg to 6578'
- U BLM rep. (Mike Gilbreath) requesting to set CR at 6578' & cap w/16sxs. due to CR too close to Gallup top perfs at 6020'. NMOCD (Monica Kuehling) & Logos approved.
- U Set CR at 6587', PT 2.375 tbg to 1000 psi, held ok, sting out & pump 160 bbls of water w/ biocide. Casing circulated, then stopped.
- P Pump 10 bbls fresh water ahead. Spot Plug #1.
- P LD 7 jts., standback 24 stands. Shut in well. Wait on cement 4 hours per BLM.
- P CK casing pressure; 4.5 casing - 30 PSI, blow down, Trip in hole with tubing & tag TOC at 6379'. LD tbg, POOH w/ 39 stands. SI well. Secure & Shut down for day.

10/30/2017

- P Travel to location. Service & start rig & equipment. Held safety meeting on JSA.
- P CK PSI; SI casing pressure - 60 PSI, SI tubing pressure - 60 PSI, SI bradenhead pressure - 60 PSI. Blow down well. FT pipe rams. Finish POOH w/tubing & LD setting tool. (100 stands in derrick)
- P Perf at 6299' w/3, 1-1/8 HSC.
- P PU 1-WD, 4.5 CR, trip in hole w/ tubing & set CR at 6251'. Attempt to set rate. Pump 13 bbls. & pressured up to 1000 psi w/no bled off. BLM (On site reps), NMOCD (Brandon Powell) & Logos approved to pump 20 sxs on top of CR.
- P Sting out, Pump 15 bbls. Ahead. Spot Plug #2.
- P LD 8 jts., stand back 24 stands. SI well & Wait on cement.
- P CK PSI, Casing pressure & tubing pressure at 30 psi, blow down well. Trip in hole w/ 24 stands & tag Plug #2 TOC at 6044'. OK'd by BLM reps.
- P TOH and LD setting tool. SI well & drain up. Shut down for day.

10/31/2017

- P Travel to location. Inspect and start rig equipment. Held safety meeting with JSA.
- P Check PSI; SI casing pressure - 60 PSI, No Tubing, SI BH pressure - 60 PSI. Open well to pit.
- P RU A-plus Wireline. RIH and tag TOC @ 5981'. Perf 3 squeeze holes @ 5780'. RD WL.
- P Trip in hole with 4.5 CR to 5725'. Attempt to establish rate below CR. Unable to establish rate. NMOCD (Brandon Powell), BLM (Mike Gilbreath & J. Dobson), Logos (J. Robinson) approved inside plug from 5725' to 5200' on 10/31/17 @ 10:00 AM.
- P Spot Plug #3. WOC 4 hours.
- X Wait on Wireline to run in to Farmington to get CBL tools as per BLM reps.
- X Run CBL from 5150' - 3200'. TOC @ 4100'
- P TIH w/ tbg. Tag TOC at 5367', LD tubing. Up to 4947'. SI well & drain up. Shut down for day.

11/01/2017

- P Travel to location. Inspect and start rig equipment. Held safety meeting with JSA.
- P Check PSI; SI casing pressure - 60 PSI, SI tubing pressure - 10PSI, SI bradenhead pressure - 60 PSI. Open well to pit.
- P Establish circulation with 5 bbls. Pump 20 bbls total. Spot Plug #4.
- P WOC for 4 hours.
- P TIH and tag TOC @ 4669'. LD to plug 5 @ 4160' end of tubing. Load well with 3 bbls.
- P Spot Plug #5. WOC overnight. TOH with tubing. SI well. Drain pump, clean and secure location. Shut down for day.

11/02/2017

- P Travel to location. Inspect and start rig equipment. Held safety meeting with JSA.
- P Check PSI; Casing is on a vacuum, Tubing on a vacuum. SI BH pressure - 40 PSI. Open well to pit.
- P TIH and tag TOC @ 3911'. PUH.
- P Spot Plug #6. WOC 4 hours.
- P TIH and tag TOC @ 2535'. TOH.
- P Held JSA. RU A-plus WL. Perforate 3 squeeze holes @ 1423'. RD WL.

X Trip in hole with 4.5" CR and set at 1373'. Establish circulation with 4 bbls. Sting into CR; establish a rate of .5 BPM @ 1400 PSI. Too tight to pump plug. Waiting on orders. Approved to pump inside plug by NMOCD (Charlie Perrin) & JOGA (Bryce Hammond), BLM to spot 12sxs above retainer.

P Spot Plug #7. TOH. SI well. SDFD.

11/03/2017

P Travel to location. Inspect and start rig equipment. Held safety meeting with JSA.

P Check PSI; Casing on a vacuum. Tubing on a vacuum. SI bradenhead pressure - 28PSI. Open well to pit.

P TIH & tag TOC @ 1230'.

P Spot Plug #8 (Added Plug for Casing Holes) from 500'- 237'. LD all TBG. Load casing with .5 bbls and displace cement to 299'. SI well. WOC.

P Check PSI on well; Casing on a vacuum. Bradenhead on a vacuum. No tubing.

P Trip in hole with tubing and tag TOC @ 315'. LD all TBG.

P Perf 3 squeeze holes @ 273'. Monitored well for LEL for 30 min as per BLM reps on location. NO LEL after 30 min test. Proceed with surface plug. Establish circulation with 7 bbls, pumped 45 bbls total. RD rig and equipment. ND BOP. NU WH.

P Spot Plug #9. Circulate cement to surface. SI BH and squeeze 8 sxs. SI well with 350 PSI.

P Drain pump, clean secure location. Shut down for day.

11/06/2017

P Travel to location. Held safety meeting with JSA. Inspect and start rig equipment.

P Check PSI; Casing on a vacuum. No tubing. SI Bradenhead pressure - 0 PSI. Open well to monitor LEL on BH, 30 min test. No LEL after 30 min test.

P Dig out WH. Cut and remove WH. Found TOC @ 73' inside 4.5" casing. Found TOC at surface in 9-5/8" casing. Top off 4.5" with 8 sxs of class B cement, 9.44cf, 1.18 yield, 15.6 PPG, 1.68 bbls slurry. Weld on cap and P&A marker.

P RD Daylight unit. Clean and secure location. Move off location. Road equipment to yard.

* P - Procedure Planned; U - Unplanned A+ issue; X - COA, Well Conditions

On Site Reps:

Name	Association	Notes
JIMMY DOBSON	BLM	on loc.
MIKE GILBREATH	BLM	on loc.
JOEY ROBINSON	Co. Rep.	on loc.
Monica Kuehling	NMOCD	Notify at 10:40 AM
Bryce Hammond	Jicarilla O&G	Notify at 10:45 AM