

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD REC'D
9/25/20

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.
NMSF078771

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM78407X

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: UNKNOWN OTH		8. Well Name and No. ROSA UNIT SWD 1
2. Name of Operator LOGOS OPERATING LLC		9. API Well No. 30-039-27055-00-S1
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401		10. Field and Pool or Exploratory Area SWD MORRISON BLUFF ENTRADA
3b. Phone No. (include area code) Ph: 505-787-2218		11. County or Parish, State RIO ARRIBA COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T31N R6W NWSE 2420FSL 1210FEL 36.884350 N Lat, 107.427190 W Lon		

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input checked="" 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 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 recomplete 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.

LOGOS is requesting to perform a five year MIT test per the Salt Water Disposal Order(SWD)916.

***NMOCD- COA Schedule the Pressure test with Monica Kuehling. *BP*

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #530521 verified by the BLM Well Information System For LOGOS OPERATING LLC, sent to the Farmington Committed to AFMSS for processing by JOE KILLINS on 09/23/2020 (20JK0896SE)	
Name (Printed/Typed) MARIE E FLOREZ	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 09/17/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JOE KILLINS</u>	Title <u>ENGINEER</u>	Date <u>09/23/2020</u>
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 <u>Farmington</u>

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 ****

AV



MECHANICAL INTEGRITY TEST- (2020)

Rosa Unit SWD 1
30-039-27055
2420' FSL & 1210' FEL
Sec 23, T31N, R06W
Rio Arriba County, Colorado
Lat 36.8845329° Long -107.4272766°
Morrison/Bluff/Entrada

PROJECT OBJECTIVE:

Top off the long string tubing-casing annulus with packer fluid. Rig up chart recorder and conduct mechanical integrity test.

WORKOVER PROCEDURE:

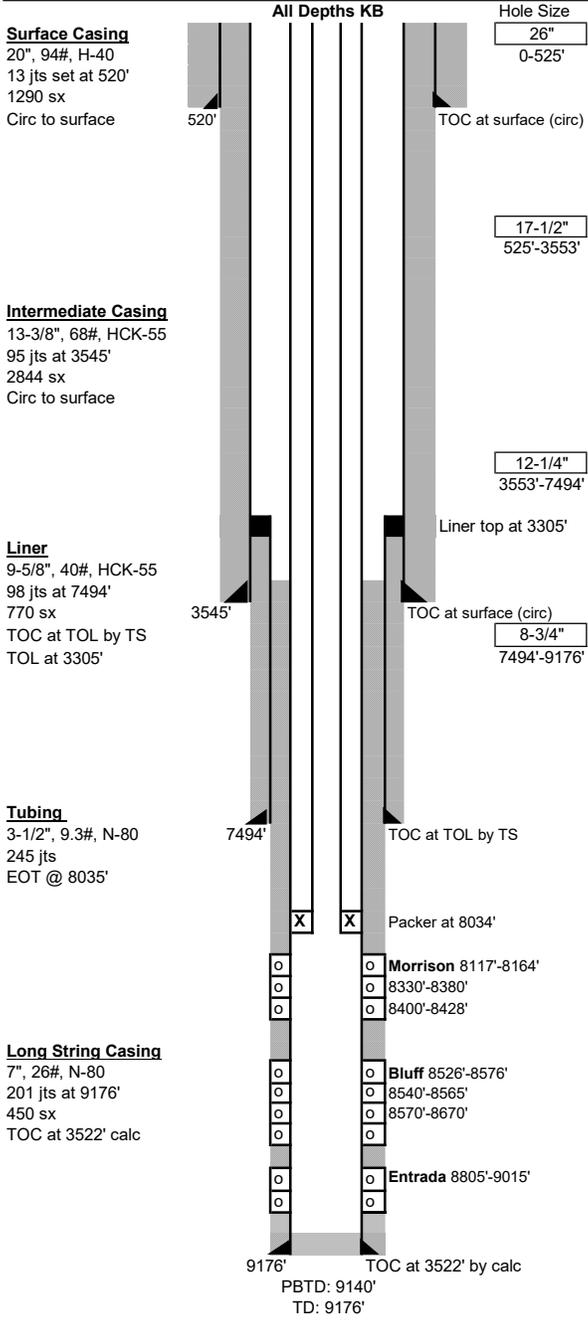
1. Contact regulatory to ensure test has been scheduled with NMOCD.
2. Hold safety meeting. Comply with all LOGOS, BLM and NMOCD rules and regulations.
3. Top off the 3-1/2" x 7" tubing-casing annulus with packer fluid at least 24 hours before the pressure test.
4. Conduct preliminary pressure test to ensure packer is holding. Do not pressure up beyond 560 psig surface pressure.
6. Call out Wellcheck.
7. RU Wellcheck to chart pressure test as follows:
 - **Top off with packer fluid, if needed**
 - **Pressure up the 3-1/2" x 7" tubing-casing annulus to 560 psig surface pressure**
 - **Record pressure on 1 hour chart with 1000 psig spring for 30 minutes**
 - **Contact engineer with results of pressure test**
8. Bleed off pressure and release Wellcheck.



Wellbore Schematic

Well Name: Rosa Unit SWD #001
 Location: Sec 23, T31N, R06W 2420' FSL & 1210' FEL
 County: Rio Arriba
 API #: 30-039-27055
 Co-ordinates: Lat 36.8845329 Long -107.4272766
 Elevations: GROUND: 6243'
 KB: 6255'
 Depths (KB): PBTD: 9140'
 TD: 9176'

Date Prepared: 10/15/2020 Gomez
 Reviewed by: 10/21/2020 Moss
 Spud Date: 6/28/2004
 Completion Date: 10/28/2004
 Last Workover Date: 12/4/2015



Surface Casing: (6/28/2004)
 Drilled a 12-1/4" surface hole to 525'. Ream hole to 17-1/2" then 26" from 0'-520' TD.
 Set 13 its of 20" 94# H-40 casing at 520'.
 Cmt w/ 1065 sx Type III 65/35 Poz w/ 1% CaCl, 0.25% Celloflake, 8% Bentonite. Cmt tail w/ 225 sx Type III w/ 0.25% Celloflake. Circulate 145 bbls to surface.

Intermediate Casing: (8/2/2004)
 Drilled a 17-1/2" intermediate hole to 3553'. Set 95 jts 13-3/8", 68#, HCK-55 to 3545' w/ FC at 3506'.
 Cmt w/ 2000 sx Type III 65/35 Poz w/ 1% CaCl, 0.25% Celloflake, 8% Bentonite. Cmt tail w/ 844 sx Type III w/ 0.25% Celloflake. Circulate 407 bbls to surface.

Casing Liner: (8/12/2004)
 Drilled a 12-1/4" production hole to 7494'. Set 98 jts 9-5/8", 40#, HCK-55 casing at 7494'.
 TOL at 3305'. Cmt w/ 570 sx Prem Lite FM, 1/4 #/sk of Celloflake, 8% BWOC Bentonite, 2% Phenoseal. Tail w/ 200 sx Prem Lite Hi Stength FM, 3 #/sk CSE, 0.1%R3, 1/4 #/sk Celloflake, 0.3% CD-32, 1% FL-52, 4% Phenoseal. Circulate 330 bbls and returned 190 bbls.
 TOC at TOL by Temperature Survey.

Long String Casing: (9/7/2004)
 Drilled a 8-3/4" production hole to 9176'. Set 201 jts 7", 26#, N-80 casing at 9176'.
 Cmt w/ 50 sx Prem Lite FM, 1% BWOC R3, 1/4 #/sk Celloflake, 4% BWOC Phenoseal.
 Tail w/ 400 sx Prem Lite Hi Stength FM, 0.1% BWOC FL-52, 0.3% BWOC CD-32, 0.2% BWOC R-3, 1/4#/sk Celloflake, 4% BWOC Phenoseal. TOC at 3522' by calc w/ 80% eff.

Tubing: (12/4/2015)

KB	Length (ft)
KB	12.00
(244) 3-1/2", 9.3#, N-80, IPC tbq jts	7977.00
(1) 2.81" X Profile Nipple at 7990'	1.00
(1) 3-1/2", 9.3#, N-80, IPC tbq jt	33.00
(1) 2.81" Seal Nipple at 8024'	1
(1) 7"x3.5" D&L AS= 1X PKR w/ 7" x 2.5" on/off tool	11

*set 43k down on pkr and 15k on hanger

Set at: 8035 ft

Perforations: (10/28/2004)
 Entrada: 8805'-9015' (630, 0.46" holes). Frac w/ 199,450# 20/40 Brady sand carried in a lightening 2200 cross link gel.
 Bluff: 8526'-8576' (150, 0.46" holes), 8540'-8565' (75, 0.46" holes), 8570'-8670' (300, 0.46" holes) frac w/ 176,600# 20/40 Brady sand carried in lightening 2200 cross link gel.
 Morrison: 8117'-8164' (141, 0.46" holes), 8330'-8380' (150, 0.46" holes), 8400'-8428' (120, 0.46" holes) frac w/ 150,120# 20/40 Brady sand carried in lightening 2200 cross link gel.

Formations:

Fruitland-	2832'
Pictured Cliffs-	3264'
Lewis-	3362'
Cliffhouse-	5272'
Menefee-	5309'
Point Lookout-	5527'
Mancos-	5837'
Graneros-	7637'
Dakota-	7754'
Morrison-	8006'
Bluff-	8571'
Entrada-	8793'

Additional Notes:
 7/2012- Halliburton acidized the perforations with 15% HCl down the tubing at 5,043 bbls.
 8/2015- The injection well was converted to a water supply well using an ESP.
 12/2015- The well was converted back to a salt water disposal well