

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. JIC108
2. Name of Operator SOUTHLAND ROYALTY COMPANY		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
Contact: ROBBIE A GRIGG E-Mail: rgrigg@mspartners.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 400 W 7TH STREET FORT WORTH, TX 76102	3b. Phone No. (include area code) Ph: 817-334-7842	8. Well Name and No. JICARILLA 108 5
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 24 T26N R5W SENE		9. API Well No. 30-039-06394-00-S1
		10. Field and Pool or Exploratory Area SOUTH BLANCO
		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 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 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.

SEE ATTACHED PLUG AND ABANDON PROPOSAL AND WBD FOR YOU APPROVAL.

NMOCD

JUL 16 2018

DISTRICT III

14. I hereby certify that the foregoing is true and correct. Electronic Submission #407855 verified by the BLM Well Information System For SOUTHLAND ROYALTY COMPANY, sent to the Rio Puerco Committed to AFMSS for processing by JACK SAVAGE on 06/25/2018 (18JWS0015SE)	
Name (Printed/Typed) ROBBIE A GRIGG	Title SUPVR REGULATORY REPORTING
Signature (Electronic Submission)	Date 03/14/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE	Title PETROLEUM ENGINEER	Date 06/25/2018
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 ****

NMOCD



Southland Royalty Company

Plug & Abandon Procedure

September 12, 2017

Well:	Jicarilla 108 #5	API:	3003906394
Location:	1650 FNL & 990 FEL	Field:	Picture Cliffs
Sec, T, R:	Sec. 24, T26N, R5W	Elevation:	GL: 6629'
Cnty/State:	Rio Arriba, NM	By:	Aztec Well Servicing
Lat/Long:	36.47493, -107.3051		

Objective:

Permanently plug & abandon the well from 3,140' to surface containing 3 separate cement plugs.

Prior to Rig:

1. Notify BLM & NMOCD
2. Note: verify all cement volumes based on actual slurry to be pumped.
3. See attached COA's from BLM & NMOCD.

Procedure:

1. MIRU unit and cementing equipment
2. ND WH, NU BOP stack, RU rig floor and 2 3/8" handling tools
3. LD production string, Tally & TIH work string / 5 1/2" CSG scraper to 3150' +/- TOOH
4. TIH w/ 5 1/2" CICR and set @ 3140', test TBG, roll well & Test CSG. (WOC to be determined if test holds)
5. **Plug #1, 3032' - 3140' (PC top: 3190', Fruitland top: 3132'). PC Perfs: 3190' - 3241':** RIH & set CICR at 3140'. Pressure test tubing prior to pumping cement to 1000 psi. Sting out of retainer. Mix & pump 15 sxs (17.7 cf) of Class B cement (or equivalent) on top of retainer. (note: cement top at 2700', determined by temp survey after primary cement job).
6. Pull above cement & reverse TBG clean
7. LD TBG to 2752' *2900 - 2549'*
8. **Plug #2, 2602' - 2752' (Ojo Alamo Top: 2702'):** Spot 15 sxs (17.7 cf) Class B cement in a balanced plug inside casing to cover Ojo Alamo top.
9. PUH & reverse TBG clean. WOC if needed. TIH to confirm top of plug. Re-spot if necessary
10. LD all TBG *1272 1372*
11. RU WL and Perforate @ 200'
12. Attempt to circulate up annulars
13. **Plug #3, (8-5/8" Surface casing shoe, 200' to Surface):** If required by BLM, Perforate at 200' and attempt to establish circulation to surface out the



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bradenhead valve. Mix approximately 60 sxs (70.8 cf) of cement and pump down the 5-1/2" casing to circulate out the BH valve. If unable to circulate, top off as necessary.

14. ND BOP and cut off wellhead below surface casing flange per regulation. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.
15. Mobilize equipment to next location.

Date: 9/5/17

Elevation: 6630" GL
6639" KB
KB: 9'

Hole Size: 10-1/2"

8-5/8", 24#, Casing set @ 188'
Cement w/ 130 sxs, circulated cmt to surf

Plug #3: 200' - 0'
Class B cement, 60 sxs (70.8 cf)

Perforate @ 200'

Plug #2: 2602' - 2752'
Class B cement, 17 sx (20 cf)

TOC - 2000'
(temp survey)

Ojo Alamo @ 2702'

Kirtland @ 2840'

Hole Size
7-1/4"

Fruitland @ 3132'

Set CICR at 3140'
Plug #1: 3032' - 3140'
Class B cement, 15 sxs (17.7 cf)
Picture Cliffs Perfs:
3190' - 3241'

Picture Cliffs @ 3190'

PBTD: 3286'
TD: 3322'

5-1/2", 15.5#, J-55 casing set @ 3321'
Cement w/ 100 sx
TOC: 2700' (temp survey)



Southland Royalty Company

CURRENT WBD

Jicarilla 108-5
Rio Arriba County, NM

TD – 3,322'; PBD – 3,286'

10-1/2" hole to 188' KB.
Surface Csg: 6 jts 8 5/8" 24# J-55
Setting Depth: 188'

Cement
130 Sx Class C
Circulated cmt to surface

7-1/4" hole to 3,322'
Production Csg: 105 jts 5-1/2" 15.5# J-55
Setting Depth: 3,321'

Cement:
100 Sx Class C
TOC @ 2,700' (Temp Survey)

Plunger Lift

Prepared by: CArnold
Date: 08/30/2017

KB = 9'
KB = 6,639'
GL = 6,630'
API# 30-039-06394

Spud Date: 04/25/1958
Date Completed: 06/23/1958

Ojo Alamo: 2,702'
Kirtland: 2,840'
Fruitland: 3,132'
Pictured Cliffs: 3,190'

Prod Tbg 06/23/1958:
106 Jts 1-1/4" EUE Tbg
EOT=3,238' KB
Clean Out to PBD @ 3,286'

Pictured Cliffs Frac 06-21-1958:
3190-3241'
30,000# Sd
26,300 gal Wtr
BD @ 3600 psi; ATP: 2500-1600psi;
AIR: 59.4 bpm

Pictured Cliffs Perfs:
3190-98', 3214-24', 3231-41'
4 SPF; 06-19-1958

3183-84' sqz'd w/ 100 Sx
06-14-1958

PBD: 3,286'

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: Jicarilla 108 #5

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Set plug #1 from (2908'-3140') ft to cover Fruitland tops. BLM picks the Fruitland top at 2958 ft.
 - b) Set plug #2 from (2900'- 2549') ft to cover both the Kirtland and Ojo Alamo. BLM picks the top of the Kirtland at 2850' ft and Ojo Alamo at 2599' ft.
 - c) Add plug to cover the Nacimiento top from (1372'-1272') ft. BLM picks the top of Nacimiento at 1322 ft.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: jwsavage@blm.gov Brandon.Powell@state.nm.us

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.