

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.*5. Lease Serial No.
NMSF077764

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 28. Well Name and No.
SCHUMACHER 129. API Well No.
30-045-09441-00-S1

10. Field and Pool or Exploratory Area

UNNAMED
Basin Dakota

11. County or Parish, State

SAN JUAN COUNTY, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

SOUTHLAND ROYALTY COMPANY LLC

Contact: HOLLY WOOD

Email: hwood@mspartners.com

3a. Address

400 W 7TH STREET
FORT WORTH, TX 76102

3b. Phone No. (include area code)

Ph: 817-334-7842

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 17 T30N R10W SWSW 0800FSL 0800FWL
36.806671 N Lat, 107.912979 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 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 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.

SEE ATTACHED PLUG AND ABANDON PROPOSAL AND WBD FOR YOUR APPROVAL

Notify NMOCD 24 hrs
prior to beginning
operations**BLM'S APPROVAL OR ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS****OIL CONS. DIV. DIST. 3
FEB-13 2018**

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

Electronic Submission #402589 verified by the BLM Well Information System
For SOUTHLAND ROYALTY COMPANY LLC, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 02/09/2018 (18JWS0102SE)

Name (Printed/Typed) ROBBIE A GRIGG

Title SUPVR REGULATORY REPORTING

Signature (Electronic Submission)

Date 01/29/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE

Title PETROLEUM ENGINEER

Date 02/09/2018

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 Farmington

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 A

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Southland Royalty Company

Plug & Abandon Procedure

September 12, 2017

Well:	Schumacher #12	API:	3004509441
Location:	800 FSL & 800 FWL	Field:	Dakota
Sec, T, R:	Sec. 17, T30N, R10W	Elevation:	GL: 6455
Cnty/State:	San Juan County, NM	By:	Aztec Well Servicing
Lat/Long:	36.806483, -107.9135437		

Objective:

Permanently plug & abandon the well from 7,247' to surface containing 6 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 / 4 1/2" CSG scraper to 7260' TOOH
4. TIH w/ 4 1/2" CICR and set @ 7247', test TBG, roll well & Test CSG. (WOC to be determined if test holds, note prior squeezes)
5. **Plug #1, 7078' - 7247' (Dakota perms: 7297'-7400', DK Top: 7382', Graneros Top: 7238', Greenhorn Top: 7178')**: Sting out of retainer, mix & pump 15 sxs (17.7 cf) of Class B cement (or equivalent), leaving 169' of cement on top of retainer to cover Dakota, Graneros and Greenhorn tops.
6. Pull above cement & reverse TBG clean. If required, run CBL.
7. WOC, TIH & tag TOC, re-spot if necessary
8. LD TBG to 5476'
9. **Plug #2, 5326' - 5476' (Mancos Top: 5426')**: Pull up to 5476'. Mix and pump 15 sx (17.7 cf) of cement in a balanced cement plug from 5476' - 5326'.
10. Pull above cement and reverse circulate to clean out tubing.
11. WOC, TIH & tag TOC, re-spot if necessary
12. LD TBG to 4590'
13. **Plug #3, 4440' - 4590' (Mesaverde Top: 4540')**: Pull up to 4590'. Mix and pump 15 sx (17.7cf) of cement in a balanced cement plug from 4590' - 4440'.
14. Pull above cement and reverse circulate to clean out tubing.
15. WOC, TIH & tag TOC, re-spot if necessary



Family-owned, founded in 1963 with Aztec Well Servicing Co.



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Cnty/State:	San Juan County, NM		
Lat/Long:	36.806483, -107.9135437	By:	Aztec Well Servicing

16. LD TBG to 3040'
17. Plug #4, 2890' - 3040' (Pictured Cliffs Top: 2909'): Pull up to 3040'. Mix and pump 15 sx (17.7cf) of cement in a balanced cement plug from 3040' - 2890'.
18. Pull above cement and reverse circulate to clean out tubing.
19. WOC, TIH & tag TOC, re-spot if necessary
20. LD TBG to 1622'
21. Plug #5, 1472' - 1622' (Ojo Alamo Top: 1572'): Pull up to 1622'. Mix and pump 15 sx (17.7 cf) of cement in a balanced cement plug from 1622' - 1472'.
22. Pull above cement and reverse circulate to clean out tubing.
23. WOC, TIH & tag TOC, re-spot if necessary
24. LD all TBG
25. Plug #6, (9-5/8" Surface casing shoe, 350' to Surface): If required by BLM, Perforate at 350' and attempt to establish circulation to surface out the bradenhead valve (note: circulated cement to surface on primary surface casing cement job). Mix approximately 100 sxs (118 cf) of cement and pump down the 5-1/2" casing to circulate out the bradenhead casing valve. If unable to circulate, top off as necessary.
26. Mobilize unit and equipment to next well



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Cnty/State:	San Juan County, NM	By:	Aztec Well Servicing
Lat/Long:	36.806483, -107.9135437		

Date: 9/7/17
Elevation: 6370' GL
KB: 6380' (10' KB)
Hole Size: 13-3/4"

Hole Size
7-7/8"

Ojo Alamo @ 1572'

Fruitland @ 2580'

Pictured Cliffs @ 2909'

Lewis @ 2990'

Cliff House @ 4540'

Menefee @ 4722'

Point Lookout @ 5164'

Mancos @ 5426'

Gallup @ 6443'

Greenhorn @ 7178'

Graneros @ 7238'

Dakota @ 7382'

Plug #6: Surf to 350'
Class B cement, 100 sx (116 cf)

9-5/8", 36#, J55 Casing set @ 301'
Cement w/ 200 sxs, circulated cmt to surf
Perforate @ 350'

Plug #5: 1472' - 1622'
Class B cement, 15 sx (17.7 cf)

TOC - 1675'

Plug #4: 2890' - 3040'
Class B cement, 15 sx (17.7 cf)

DV tool - 3075'

Plug #3: 4440' - 4590'
Class B cement, 15 sx (17.7 cf)

TOC - 4610'

Plug #2: 5326' - 5476'
Class B cement, 15 sx (17.7 cf)

DV tool - 5491'

TOC - 6960'

CICR set at 7247'

Plug #1: 7076' - 7247'
Class B cement, 15 sx (17.7 cf)

Dakota Perfs: 7297' - 7400'

4.5", 10.5# & 11.6#, casing set @ 7541'
1st stage: 130 sx (TOC - 6960')
2nd stage: 260 sx (TOC - 4610')
3rs stage: 325 sx (TOC - 1675')

Note: Previous Squeeze Jobs
3503' - 3800'

4/14/2011 3709'-3800'
370 sx under CICR

4/18/2011 3562'-3797'
15 sx Hesitate squeeze

4/20/2011 3503'-3797'
20 sx Hesitate squeeze

4/22/2011 3532'-3797'
20 sx Hesitate Squeeze

Whipstock: 4601' 6/17/1962
Lost DC's while drilling well

PBTD: 7502'
TD: 7541'



Southland Royalty Company

Schumacher 12 San Juan, NM

TD - 7,541', PBTD - 7,502'

13-3/4" hole to 303'
Surface Csg: 9 Jts 9-5/8" 36# J-55
Setting Depth: 301' kb

Cement
200 Sx Regular
Circulate cmt to surface

7-7/8" hole to 7,541'
Production Csg: 236 Jts 4-1/2" 11.6/10.5#
7 Jts - 11.6#, 197 Jts 10.5#, 32 Jts 11.6#
Setting Depth: 7,541'

Cement
3rd Stage @ 3075': 325 Sx
TOC @ 1675'
2nd Stage @ 5491': 260 Sx
TOC @ 4610'
1st Stage @ 7541': 130 Sx
TOC @ 6960'

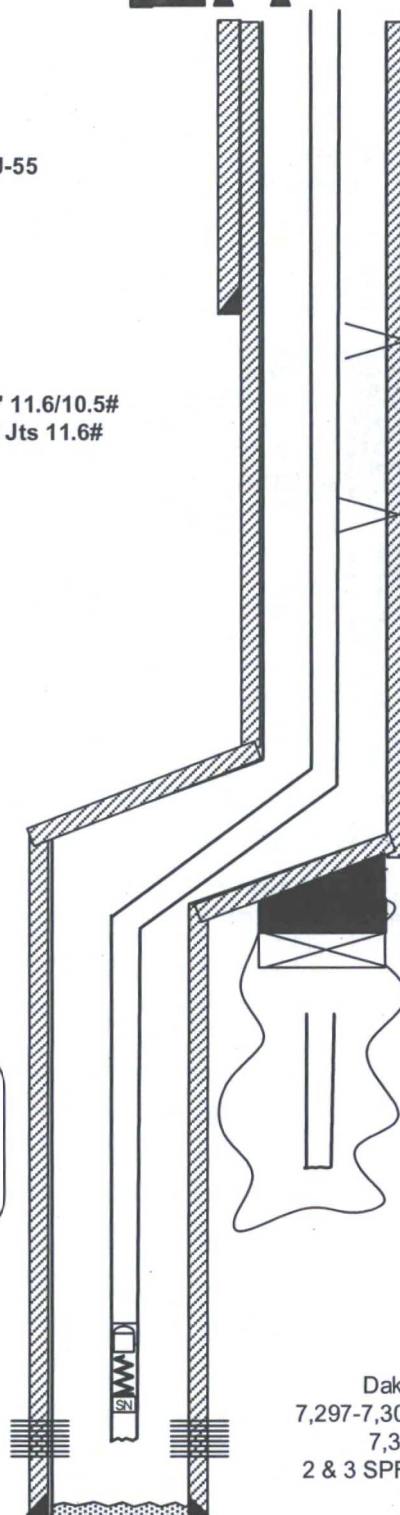
Prod Tbg 05/02/2011:
2-3/8" 4.7# J-55 Blue Band Tbg
12' Tbg Sub, SN, 237 jts Tbg
EOT=7,383' KB; SN= 7,370' KB

Dakota Frac 07/09/1962:
71,000 gal Wtr
80,000# 40/60 Sd
AIR 31.5 BPM

CURRENT WBD



Plunger Lift



PBTD: 7,502'

Dakota Perfs:
7,297-7,303', 7,384-7,388',
7,396-7,400'
2 & 3 SPF, 0.29" dia, 120
Holes

Prepared by: CArnold
Date: 08/30/2017

KB = 10'
KB = 6,380'
GL = 6,370'
API# 30-045-09441
Pool: Basin Dakota

Spud Date: 05/20/1962
Completed: 07/19/1962

01/18/1963
Csg Patch @ 1077'
Cmt backside w/ 150 Sx

04/14/2011
Sqz Csg Leak f/ 3709-3800'
370 Sx Class G Under Cmt
Retainer

04/18/2011
15 Sx Balanced Plug f/ 3562-3797'
Hesitate Sqz to 950 psi

04/20/2011
20 Sx Balanced Plug f/ 3503-3797'
Hesitate Sqz to 1020 psi

04/22/2011
20 Sx Balanced Plug f/ 3532-3797'
Hesitate Sqz to 1002 psi

6/17/1962
Fish in Original Vertical Hole
16 drill collars w/ BHA left in hole
TOF @ 4686'
Spot Cmt above Fish
Set Whipstock @ 4601' for Vertical Sidetrack

Formation Depths:
Ojo Alamo: 1572-1660'
Kirtland: 1660-2580'
Fruitland: 2580-2909'
Pictured Cliffs: 2909-2990'
Lewis: 2990-4540'
Cliff House: 4540-4722'
Menefee: 4722-5164'
Point Lookout: 5164-5426'
Mancos: 5426-6443'
Gallup: 6443-7178'
Greenhorn: 7178-7238'
Graneros: 7238-7382'
Dakota: 7382-7508'
Morrison: 7508-7541'

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: Shumacher #12

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) Add a cement plug (6490 – 6390) ft. inside/outside to cover the Gallup top. BLM picks top of Gallup at 6440 ft. Adjust cement volume accordingly.
- b) Set Plug #2 (5710 - 5610) ft. inside/outside to cover the Mancos top. BLM picks top of Mancos at 5660 ft.
- c) Add Plug (3701 – 3601) ft. inside/outside to cover the Chacra top. BLM picks top of Chacra at 3651 ft. Adjust cement volume accordingly.
- d) Set Plug #4 (2946 – 2846) ft. inside/outside to cover the Pictured Cliffs top. BLM picks top of Pictured Cliffs at 2896 ft.
- e) Add a cement plug (2630 – 2530) ft. inside/outside to cover the Fruitland top. BLM picks top of Fruitland at 2580 ft. Adjust cement volume accordingly.
- f) Set Plug #5 (1710 – 1515) ft. inside/outside to cover the Ojo Alamo and Kirtland tops. BLM picks top of Kirtland at 1660 ft. BLM picks top of Ojo Alamo at 1565 ft.

Operator must run CBL to surface to identify TOC. Submit the electronic copy of the log for verification to the following addresses: jwsavage@blm.gov Brandon.Powell@state.nm.us

H₂S has not been reported at this location, however, **High to Very High concentrations of H₂S (180 – 500 ppm GSV and 800 ppm STV)** have been reported in several wells within a 1 mile radius of this location. **It is imperative that H₂S monitoring and safety equipment be on location during plugging operations at this location.**

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.