

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.
NMNM30586

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.
CARRACAS 32-5 24-1

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

SOUTHLAND ROYALTY COMPANY LLC

Contact: CONNIE BLAYLOCK

Email: cblaylock@mspartners.com

9. API Well No.

30-039-31362-00-S1

3a. Address

400 W 7TH STREET
FORT WORTH, TX 76102

3b. Phone No. (include area code)

Ph: 817.334.7882

10. Field and Pool or Exploratory Area
BASIN DAKOTA
BASIN MANCOS

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

Sec 24 T32N R5W NWSW 37FNL 107FWL
36.965641 N Lat, 107.319504 W Lon

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Hydraulic Fracture
	☐ Convert to Injection	☐ Plug Back	☐ 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.

POOH w/ Tbg & Pkr

Add perfs in existing Mancos zone f/ 8146-8155?

Frac well as designed (attached)

Flowback well

If necessary, lubricate packer in hole

Run tbg and land in pkr

Return well to prod

SEE ATTACHED
FOR CONDITIONS
OF APPROVALNMOC
JUN 11 2018
DISTRICT III**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**

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

Electronic Submission #422227 verified by the BLM Well Information System
For SOUTHLAND ROYALTY COMPANY LLC, sent to the Farmington
Committed to AFMSS for processing by WILLIAM TAMBEKOU on 06/07/2018 (18WMT0894SE)

Name (Printed/Typed) CONNIE BLAYLOCK

Title REGULATORY TECH

Signature

(Electronic Submission)

Date 06/01/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By WILLIAM TAMBEKOU

Title PETROLEUM ENGINEER

Date 06/07/2018

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 ****

NMOCDFV



Southland Royalty Company

Carracas 32-5 24 #1 **Rio Arriba County, NM**

TD - 8,953 ft MD

17 1/2" hole to 620'.
Surface Csg: 17jts 13 3/8" 54.5# lb/ft J-55 ST&C.
Setting Depth: 618 ft kb

Cement
475sx 13.5# 1.85yield surface cmt.
Circulate 85 bbls good cmt to surface

12 1/4" hole to 4,533'.
Int Csg: 102jts 8 5/8" 32# N-80 LT&C
Setting Depth, FS: 4,509 ft
Float Collar: 4,462 ft
Hyd DV Tool: 3400 ft

Cement
Stage 1: Lead-300sx 12.3# 1.97yield.
Tail-140sx 13.5# 1.3yield
Circ 50 bbls good cmt off DV tool
Stage 2: Lead-875sx 12.3# 1.95yield
Tail-145sx 13.5# 1.31yield.
Circ 70 bbls good cmt to surface.

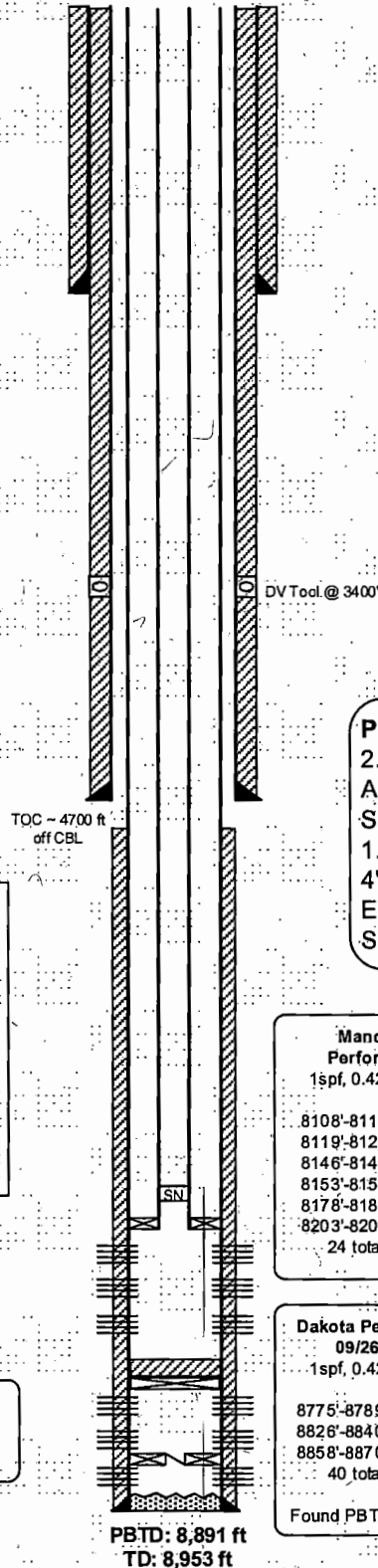
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Prod Csg: 201jts 5.5" 17# P-110 LT&C
Setting depth, FS: 8,938 ft
PBTD, FC: 8,891 ft

Cement
715sx 13.3# 1.36 yield cmt.
Top of cmt: ~ 4700 ft (based on CBL)

FM Tops	
Nacimiento	- 1675 ft
Ojo Alamo	- 3326 ft
Kirtland Shale	- 3531 ft
Fruitland Coal	- 3842 ft
Pictured Cliffs	- 4056 ft
Lewis Shale	- 4533 ft
Cliffhouse	- 6152 ft
Menefee	- 6430 ft
Point Lookout	- 6567 ft
Mancos Shale	- 7140 ft
Greenhorn	- 8612 ft
Graneros	- 8657 ft
Dakota	- 8763 ft

CIBP @ 8740'
w/ 2 Sx Cmt

CICR @ 8854'



Prod Tbg 11/20/2017:
2.375" 4.7# L-80 tbg
AS1XW Pkr, 2-7/8" OOT w/ 2.31"
SN, XO to 2-3/8", 1 Jt 2-3/8",
1.81" FN, 243 Jts 2-3/8" 10', 8', 6',
4' Pup Jts, 1 Jt 2-3/8"
EOT= 7,990' ; 1.81" FN= 7,946'
Set Pkr w/ 10k Comp

Mancos B Perforations
1 spf, 0.42", 90deg

8108'-8111'; 4 holes
8119'-8122'; 4 holes
8146'-8149'; 4 holes
8153'-8156'; 4 holes
8178'-8181'; 4 holes
8203'-8206'; 4 holes
24 total holes

Dakota Perforations
09/26/2017
1 spf, 0.42", 60deg

8775'-8789'; 14 holes
8826'-8840'; 14 holes
8858'-8870'; 12 holes
40 total holes

Found PBTD at 8873 ft

Acidize Mancos B
15% HCl (36 bioballs) - 2,000 gal
Water - 47,001 gal
ATR - 29.5 BPM, ATP - 4,621 psi
MTP - 6,196 psi
ISIP - 2,631 psi, IFG - 0.755 psi/ft
ISDP - 2,709 psi, FFG - 0.765 psi/ft

Frac DK - 10/07/2017
15% HCl (50 bioballs) - 2500 gal
Water - 4,916 bbls
100 Mesh - 38,900 lbs
40/80 Hydroprop LWC - 73,125 lbs
30/50 CRC - 27,180 lbs
Total Prop - 139,205 lbs

ATR - 69.5 BPM
ATP - 4,950 psi
MTR - 69.8 BPM
MTP - 5,472 psi
ISIP - 2,495 psi
IFG - 0.716 psi/ft
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Prepared by: CAmold
Date: 11/20/2017

KB = 16 ft
GL = 7,340 ft
KB = 7,356 ft
API# 30-039-31362

Spud Date: 08/31/2017
DK Frac Date: 10/07/2017



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PBTD: 8,891 ft
TD: 8,953 ft

Pump Schedule

Sub Stage	Fluid Type	Slurry Rate	Clean (gals)	Slurry (bbls)	PPG	Stage Name	Prop/ Stage	Time in Minutes
1	Slickwater #1	10	1,000	24	0	Load		2.38
2	HCl Acid 15%	20	1,500	36		Acid		1.79
3	Slickwater #1	60	7,917	189		Acid Flush		3.14
4						15 Min		
5	Slickwater #1	70	40,000	952		Pad		13.61
6	Slickwater #1	70	20,000	487	0.5	100 Mesh White	10,000	6.96
7	Slickwater #1	70	22,500	560	1	100 Mesh White	22,500	8.00
8	Slickwater #1	70	25,000	636	1.5	100 Mesh White	37,500	9.09
9	Slickwater #1	70	60,000	1,494	1	40/70 Mesh White	60,000	21.34
10	Slickwater #1	70	70,000	1,762	1.25	40/70 Mesh White	87,500	25.17
11	Slickwater #1	70	50,000	1,272	1.5	40/70 Mesh White	75,000	18.17
12	Slickwater #1	70	7,917	189		Flush		2.69



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office
6251 College Blvd. - Suite A
Farmington, New Mexico 87402
www.blm.gov/nm



CASING REPAIR, WORKOVER, AND RECOMPLETION CONDITION OF APPROVAL

1. If casing repair operations are needed, obtain prior approval from this office before commencing repairs.
2. If a CBL or other logs are run, provide this office with a copy.
3. After any casing repair operations, test cement squeeze to a minimum of 500# for 30 minutes with no more than 10 % pressure fall off in the 30 minutes test period. Provide test chart with your subsequent report of operations.
4. A properly functioning BOP and related equipment must be installed prior to commencing workover, casing repair, and/or recompletion operations.
5. Contact this office at (505) 564-7750 prior to conducting any cementing operations

SPECIAL STIPULATIONS:

1. Pits will be fenced during work-over operation.
2. All disturbance will be kept on existing pad.
3. All pits will be pulled and closed immediately upon completion of the recompletion and work-over activities.
4. Pits will be lined with an impervious material at least 12 mils thick.

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-039-31362
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. 319414
7. Lease Name or Unit Agreement Name CARRACAS 32-5
8. Well Number 24-1
9. OGRID Number 370292
10. Pool name or Wildcat BASIN MANCOS

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
SOUTHLAND ROYALTY COMPANY LLC

3. Address of Operator
400 W 7TH ST, FORT WORTH, TX 76102

4. Well Location
Unit Letter L : 2610 feet from the S line and 897 feet from the W line
Section 24 Township 32N Range 5W NMPM County RIO ARriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
7340 GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: HYDRAULIC FRACTURING ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

POOH w/ Tbg & Pkr
Add perfs in existing Mancos zone f/ 8146-8155'
Frac well as designed (attached)
Flowback well
If necessary, lubricate packer in hole
Run tbg and land in pkr
Return well to prod

Federal Well

NMOC
JUN 06 2018
DISTRICT III

SUNDRY #42227 SUBMITTED TO BLM ON 6/1/18 ; APPROVAL PENDING

Spud Date:

08/31/2017

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

E REGULATORY TECH

DATE 06/01/2018

Type or print
For State Use

DENIED

il address: cblaylock@mspartners.com PHONE: 817-334-7882

APPROVED I

DATE

Conditions of Approval (if any):

For Hydraulic Fracturing
STATE FORMS NOT NEEDED FOR Federal Wells



Southland Royalty Company

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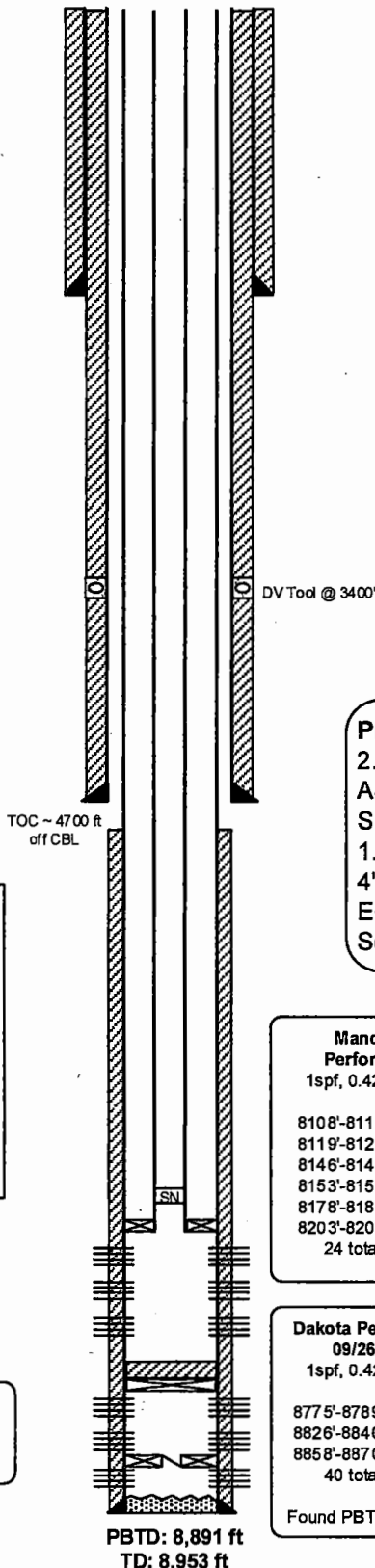
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Prepared by: CAmold

Date: 11/20/2017

KB = 16 ft

GL = 7,340 ft

KB = 7,356 ft

API# 30-039-31362

Spud Date: 08/31/2017

DK Frac Date: 10/07/2017

- CURRENT WBD -



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Pump Schedule

Sub Stage	Fluid Type	Slurry Rate	Clean (gals)	Slurry (bbis)	PPG	Stage Name	Prop/ Stage	Time in Minutes
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2	HCl Acid 15%	20	1,500	36		Acid		1.79
3	Slickwater #1	60	7,917	189		Acid Flush		3.14
4						15 Min		
5	Slickwater #1	70	40,000	952		Pad		13.61
6	Slickwater #1	70	20,000	487	0.5	100 Mesh White	10,000	6.96
7	Slickwater #1	70	22,500	560	1	100 Mesh White	22,500	8.00
8	Slickwater #1	70	25,000	636	1.5	100 Mesh White	37,500	9.09
9	Slickwater #1	70	60,000	1,494	1	40/70 Mesh White	60,000	21.34
10	Slickwater #1	70	70,000	1,762	1.25	40/70 Mesh White	87,500	25.17
11	Slickwater #1	70	50,000	1,272	1.5	40/70 Mesh White	75,000	18.17
12	Slickwater #1	70	7,917	189		Flush		2.69

Southland Royalty Co.
Carracas 32-5 24-1
Slick Frac Proposal