

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.  
NMSF078908

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
8920007130

8. Well Name and No.  
LINDRITH NP 114

9. API Well No.  
30-039-23817-00-S1

10. Field and Pool or Exploratory Area  
S BLANCO P

11. County 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  
SOUTHLAND ROYALTY COMPANY LLC  
Contact: ERIC KITTINGER  
Email: ekittinger@mspartners.com

3a. Address  
AZTEC, NM 87410

3b. Phone No. (include area code)  
Ph: 817.334.8302

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 7 T24N R2W SWSE  
36.321098 N Lat, 107.087225 W Lon

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 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.

SRC has permanently plugged and abandoned the Lindrith Unit NP #114 as of 10/10/19. SRC provides verification of the wellhead location as Lat. 36.321111, Long. -107.087222. Attached are the Procedure, Final WBD, Daily Reports, Cement Reports, and CBL.

**WMOCD**  
**OCT 28 2019**  
**DISTRICT III**

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #489605 verified by the BLM Well Information System For SOUTHLAND ROYALTY COMPANY LLC, sent to the Rio Puerco Committed to AFMSS for processing by JOE KILLINS on 10/24/2019 (19AMW0005SE)**

Name (Printed/Typed) **CONNIE BAYLOCK** Title **REGULATORY ANALYST**

Signature (Electronic Submission) Date **10/23/2019**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By **ACCEPTED** Title **JOE KILLINS PETROLEUM ENGINEER** Date **10/24/2019**

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.

*AV*

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# Southland Royalty LLC

## Plug And Abandonment End Of Well Report

### Lindrith NP 114

1170' FSL & 1580' FEL, Section 7, T24N, R2W

Rio Arriba County, NM / API 30-039-23817

#### Work Summary:

- 10/4/19** Made BLM, and NMOCD P&A operations notifications at 10:00 AM MST.
- 10/7/19** MOL and R/U P&A rig. Checked well pressures: Tubing: 0 psi, Casing: 48 psi, Bradenhead: 0 psi. Bled down well. N/D wellhead, N/U BOP and function tested. L/D 105 joints of 1.25" tubing. Move out tubing trailer, move in and spot work string trailer. Shut-in well for the day.
- 10/8/19** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. P/U casing scraper and round tripped above top perforation at 3322'. P/U CR, TIH and set at 3268'. R/U wire line services. Ran CBL from CR at 3268' to surface. TIH with cementing sub. Attempted to pressure test casing to 800 psi in which it failed to hold pressure. R/U cementing services. Pumped plug #1 from 3268'-2870' to cover the Pictured Cliffs perforations and formation top, Fruitland, Kirtland, and Ojo Alamo formation tops. WOC overnight. Shut-in well for the day. Darrell Priddy was BLM inspector on location.
- 10/9/19** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #1 top at 2849'. Attempted to pressure test both production casing and Bradenhead in which both failed to hold pressure. R/U wire line services. RIH and perforated squeeze holes at 1500'. P/U CR, TIH and set at 1456'. Successfully established injection rate through CR at 1456' and into perforations at 1500'. R/U cementing services. Squeezed 32 sx of cement through CR at 1456' and into perforations at 1500', stung out

of CR and spotted 24 sx of cement on top of CR at 1456' to cover the Nacimiento formation top. WOC 4 hours. TIH and tagged plug #2 top at 1107'. R/U wire line services. RIH and perforated squeeze holes at 196'. Successfully established circulation down through perforations at 196' and back around and out Bradenhead valve at surface. R/U cementing services. Successfully circulated cement down through perforations at 196' and back around and out Bradenhead valve at surface. N/D BOP and cut-off wellhead. Installed P&A marker per BLM/NMOCD standards. Ran weighted tally tape down both casings and tagged cement 20' down in 8-5/8" surface casing and 60' down in 4.5" production casing. Ran 3/4" poly pipe down both casings and topped-off well with 15 sx of cement. Photographed the P&A marker in place and recorded it's location via GPS coordinates. Darrell Priddy was BLM inspector on location.

**10/10/19** Cement had fallen 7' from surface. R/U cementing services. Topped-off well with 33 sx of additional cement. R/D and MOL. Darrell Priddy was BLM inspector on location.

**Plug Summary:**

**Plug #1: (Pictured Cliffs Perforations and Formation Top, Fruitland, Kirtland, and Ojo Alamo Formation Tops 3268'-2849', 39 Sacks Class G Cement)**

Mixed 39 sx Class G cement and spotted a balanced plug to cover the Pictured Cliffs perforations, Fruitland, Kirtland, and Ojo Alamo formation tops.

**Plug #2: (Nacimiento Formation Top 1500'-1107', 56 Sacks Class G cement(Squeezed 32 sx)**

RIH and perforated squeeze holes 1500'. P/U CR, TIH and set at 1456'. Mixed 56 sx Class G cement and squeezed 32 sx below CR at 1456'. Stung out of CR and spotted 24 sx of cement on top of CR at 1456' to cover the Nacimiento formation top.

**Plug #3: (Surface Casing Shoe 196'-surface, 134 Sacks Class G Cement(48 sx for top-off))**

RIH and perforated squeeze holes at 196'. Successfully established circulation down through perforations at 196' and back around and out Bradenhead valve at surface. R/U cementing services. Successfully circulated cement down through perforations at 196' and back around and out Bradenhead valve at surface. N/D BOP and cut-off wellhead. Installed P&A marker per BLM/NMOCD standards.

Ran weighted tally tape down both casings and tagged cement 20' down in 8-5/8" surface casing and 60' down in 4.5" production casing. Ran 3/4" poly pipe down both casings and topped-off well with 15 sx of cement. Photographed the P&A marker in place and recorded it's location via GPS coordinates. Cement had fallen 7' from surface. R/U cementing services. Topped-off well with 33 sx of additional cement. R/D and MOL.

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# Wellbore Diagram

Lindrith NP 114  
API #: 3003923817  
Rio Arriba County, New Mexico

## Plug 3

196 feet - Surface  
196 feet plug  
134 sacks of Class G Cement  
48 sacks for top-off

## Plug 2

1500 feet - 1107 feet  
393 feet plug  
56 sacks of Class G Cement  
32 sacks squeezed

## Plug 1

3268 feet - 2849 feet  
419 feet plug  
39 sacks of Class G Cement

## Surface Casing

8.625" 24# @ 146 ft

## Formation

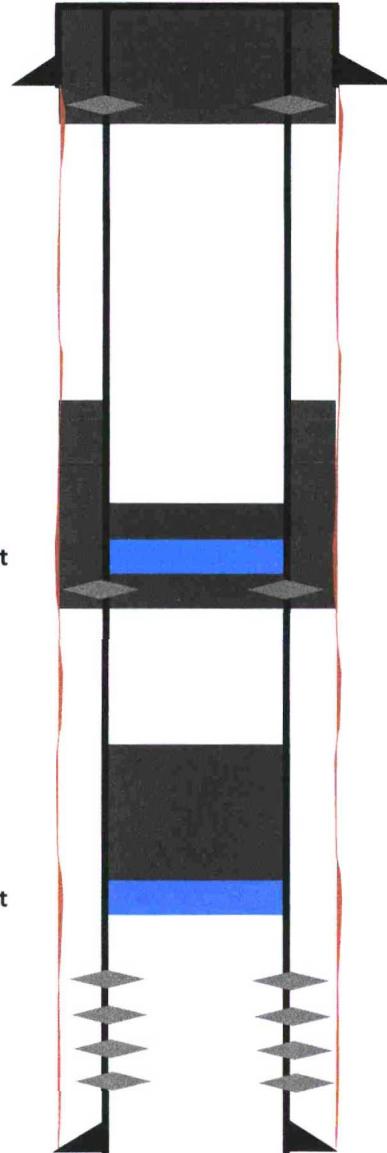
Ojo Alamo - 3020 ft  
Kirtland - 3195 ft  
Fruitland - 3250 ft  
Pictured Cliffs - 3314 ft

Retainer @ 1456 feet

Retainer @ 3268 feet

## Production Casing

4.5" 10.5# @ 3475 ft





## Treatment Report 1

**Customer:** DRAKE WELL SERVICES  
**Well Name:** LINDRITH UNIT NP 114  
**Job Type:** P&A  
**State:** NM  
**County:** MCKINLEY  
**API:** 30-039-23817  
**Legals:**

**Drake Energy Services**  
 607 West Pinon Street  
 Farmington NM, 87401  
 Office: (505) 327-7301  
 Fax: (505) 327-7304  
**DATE:** 10/11/2019

**OH Size:**

**Casing Size:** 4.5" 10#  
**Tubing Size:** 2.375" 4.7#

	DENISTY	YIELD	MIX WATER
CEMENT	15.8	1.14	4.96

Date	Time	Volume of Fluid Pumped	Fluid Type	Pressure	Rate	Event
<i>mm/dd/yy</i>	<i>h:mm</i>	<i>bbls</i>	<i>name</i>	<i>psi</i>	<i>bpm</i>	<i>Description of operation and fluid pumped</i>
10/8/2019	14:00					ARRIVE TO LOCATION
	15:15	0	H2O	1500	0	PRESSURE TEST
	15:35	5	H2O	140	1.3	CIRCULATE WELL 5 BBLs
	15:45	0	H2O	0	0	FIX LEAK ON WELLHEAD
	16:05	0	H2O	0	0	SHUT DOWN , BATCH MIX CMT
	16:09	7.9	CMT	200	1.3	7.9 BBLs, 39 SACKS CMT @ 15.9
	16:12	11.1	H2O	275	3	DISPLACE 11.1 BBLs
	16:39	0	H2O	0	0	SHUT DOWN / PULL TUBING
10/9/2019	7:00					ARRIVE TO LOCATION
	7:44	0	H2O	0	0	TAG TOC @ 2849'
	7:49	20	H2O	170	1.5	CIRCULATE WELL 20 BBLs
	8:01	0	H2O	800	0	PRESSURE TEST CASING "FAILED"
	8:09	0	H2O	300	0	PRESSURE TEST BRADEN HEAD "FAILED"
	8:15	0	H2O	0	0	SHUT DOWN, R/U WIRELINE, SET CR
	9:39	5	H2O	600	0.3	INJECTION TEST
	9:46	0	H2O	0	0	SHUT DOWN, BATCH MIX CMT
	9:50	11.5	CMT	500	1	11.4 BBLs , 56 SACKS CMT @ 15.8
	10:00	3.9	H2O	240	1.2	DISPLACE 3.9 BBLs
	10:03	0	H2O	0	0	SHUT DOWN, PULL TUBING, WOC
	14:00	0	H2O	0	0	TAG TOC @ 1107' , PERF
	14:34	8.5	H2O	170	1.4	CIRCULATE BRADEN HEAD 8.5 BBLs
	14:53	0	H2O	0	0	SHUT DOWN, BATCH MIX CMT
	14:57	17.5	CMT	160	1.4	17.5 BBLs, 86 SACKS CMT @ 15.8
	15:08	0	CMT	0	0	CEMENT @ SURFACE
10/10/2019	7:00	5	CMT	0	0	CUT WEEL HEAD, TOP-OUT

Supervisor Signature \_\_\_\_\_



