

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. NMSF078910
2. Name of Operator SOUTHLAND ROYALTY COMPANY LLC	6. If Indian, Allottee or Tribe Name
Contact: ERIC KITTINGER Email: EKITTINGER@MSPARTNERS.COM	7. If Unit or CA/Agreement, Name and/or No. 8920007130
3a. Address AZTEC, NM 87410	8. Well Name and No. LINDRITH UNIT 85
3b. Phone No. (include area code) Ph: 817-334-8302	9. API Well No. 30-039-21107-00-S1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T24N R2W NENE 36.286734 N Lat, 107.066599 W Lon	10. Field and Pool or Exploratory Area S BLANCO P
	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 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.

Southland Royalty Company LLC has plugged and abandoned the Lindrith Unit #85 as of 10/15/2019.
GPS coordinates have been verified as Lat. 36.286667, Long. -107.066666.
Attached are the Job Summary, Current WBD, Cement Reports, and CBL.

WMOCD
NOV 18 2019
DISTRICT III

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #491137 verified by the BLM Well Information System For SOUTHLAND ROYALTY COMPANY LLC, sent to the Rio Puerco Committed to AFMSS for processing by JOHN HOFFMAN on 11/12/2019 (19AMW0002SE)	
Name (Printed/Typed) CONNIE BLAYLOCK	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 11/05/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JOHN HOFFMAN Title PETROLEUM ENGINEER	Date 11/12/2019
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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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Job Summary for LINDRITH UNIT 85 PC - 3003921107

Date	Summary
10/10/2019	MOL and R/U P&A rig. Recorded wellbore pressures and bled down well.
10/11/2019	N/D wellhead, N/U BOP and function tested. POOH w/ tubing. R/U wire line services. RIH to 3002' with gauge ring. RIH with CIBP and set at 3002'. Ran CBL from CIBP at 3002' to surface. CBL results were sent to BLM/NMOCD offices for review. TIH with work string above CIBP at 3002'. R/U cementing services. Circulated the wellbore clean. During displacement a small volume of cement was observed at surface. Circulated wellbore and Bradenhead clean to ensure wellbore was clean. Shut-in well for the weekend. Leo Pacheco was BLM inspector on location.
10/14/2019	TIH with tubing. R/U cementing services. Pumped plug #1 from 3002'-2600' to cover the Pictured Cliffs perforations and formation top and Fruitland, Kirtland, and Ojo Alamo formation tops. WOC 4 hours. TIH and tagged plug #1 top at 2525'. Attempted to pressure test casing to 800 psi in which it failed to hold pressure. R/U wire line services. RIH and perforated squeeze holes at 1500'. P/U CR, RIH and set at 1450'. TIH with tubing and stung into CR. R/U cementing services. Attempted to establish injection rate through CR at 1450' and into perforations at 1500' but was unsuccessful. BLM/NMOCD approved spotting balanced plug to cover Nacimiento formation top. Pumped plug #2 from 1450'-1100' to cover the Nacimiento formation top. WOC overnight. Leo Pacheco was BLM inspector on location.
10/15/2019	TIH and tagged plug #2 top at 1086'. Attempted to pressure test casing to 800 psi in which it failed to hold pressure. R/U wire line services. RIH and perforated squeeze holes at 175'. P/U CR, RIH and set at 131'. TIH with tubing and stung into CR. R/U cementing services. Successfully established circulation through CR at 131' and perforations at 175' and back around and out Bradenhead valve at surface. Successfully circulated cement through CR at 131' and perforations at 175' and back around and out Bradenhead valve at surface. Stung out of CR and filled casing from 131' to surface to cover the surface casing shoe. N/D BOP and cut-off wellhead. Installed P&A marker per BLM/NMOCD standards. Ran weighted tally tape down 2-7/8" production casing and tagged cement 10.5' down, cement was at surface in surface casing. Ran 3/4" poly pipe down 2-7/8" production casing and topped-off well with 48 sx of cement. Photographed the P&A marker in place and recorded its location via GPS coordinates. R/D and MOL. Leo Pacheco was BLM inspector on location.



Treatment Report 1

Customer: DRAKE WELL SERVICES
Well Name: LINDRITH UNIT 85
Job Type: P&A
State: NM
County: MCKINLEY
API:
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: 2.875"

Tubing Size: 1.25"

DENISTY

YIELD

MIX WATER

CEMENT

15.8

1.14

4.96

Date	Time	Volume of Fluid Pumped	Fluid Type	Pressure	Rate	Event
mm/dd/yy	h:mm	bbls	name	psi	bpm	Description of operation and fluid pumped
10/14/2019	7:00					ARRIVE TO LOCATION
						SAFETY MEETING
		0	H2O	1500	0	PRESSURE TEST LINES @ 1500 PSI
	8:37	4.8	H2O	480	1	CIRCULATE WELL 4.8 BBLS
	8:42	0	H2O	0	0	SHUT DOWN , BATCH MIX CMT
	8:51	2.4	CMT	470	1	2.4 BBLS , 12 SACKS CMT @ 15.8
	8:55	4.5	H2O	473	1	DISPLACE 4.5 BBLS
	9:00	0	H2O	0	0	SHUT DOWN / PULL TUBING
	13:00					TAG @ 2525'
	16:27	3	H2O	550	0.5	INJECTION TEST 3 BBLS, .5 bpm @ 550 psi
	16:38	0	H2O	700	0	SHUT DOWN MAX PRESSURE
	17:28	2	H2O	100	1	CIRCULATE WELL 2 BBLS
	17:30	0	H2O	0	0	SHUT DOWN BATCH MIX CMT
	17:38	2.4	CMT	110	1	2.4 BBLS, 12 SACKS CMT @ 15.8
	17:42	1	H2O	80	1	DISPLACE 1 BBLS
	17:44	0	H2O	0	0	SHUT DOWN / PULL TUBING
10/15/2019	9:03					ARRIVE TO LOCATION
	9:15					TAG TOC @ 1086'
	9:50	5	H2O	100	1.2	CIRCULATE WELL 5 BBLS
	9:54	0	H2O	0	0	PRESSURE TEST CASING "FAILED"
	11:47	5	H2O	110	1.4	CIRCULATE BRADEN HEAD 5 BBLS
	11:54	0	H2O	0	0	SHUT DOWN, BATCH MIX CMT
	11:57	21.7	CMT	225	1	21.7 BBLS / 106 SACKS CMT @ 15.8
	12:39	0	CMT	0	0	CEMENT @ SURFACE, CUT WELL HEAD
	14:06	5.7	CMT	0	0	TOP OUT 9.8 BBLS/ 48 SACKS CMT @ 15.8
TOTAL:						

Supervisor Signature



Southland Royalty Company

Plugged & Abandoned Wellbore

KB = 7,143'

GL = 7,131'

API# 30-039-21107

Spud Date: 06/29/1975

Date Completed: 08/20/1975

Lindrith Unit #85
Rio Arriba County, NM

TD - 3,176'; PBTD - 3,166'

12-1/4" hole to 133' KB.
Surface Csg: 3 jts 8 5/8" 24# K-55
Setting Depth: 123'

Cement
118 ft³ Cmt
Circulated cmt to surface

6-3/4" hole to 3,176'
Production Csg: 99 jts 2-7/8" 6.4# J-55
Setting Depth: 3,166'

Cement
235 ft³ Cmt
TOC @ 2,400'

Ojo Alamo: 2,853'
Kirtland: 2,908'
Fruitland: 2,994'
Pictured Cliffs: 3,108'

Pictured Cliff Frac 08/01/1975:

3024', 35', 54', 68', 78', 90'

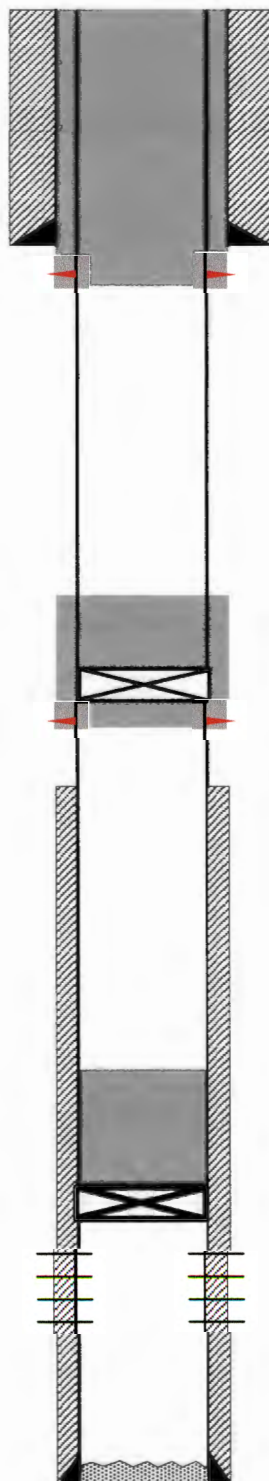
1 SPF

3024'-3090'

55,000# 20/40 sand

55,000 gal treated wtr

No balls, flushed with 760 gal wtr



PLUG 3:

Perf squeeze holes @ 175'
Cmt Retainer @ 131'
154 sx Class G Cmt (175' plug)
48 sx cmt to top off.
Cmt @ surface

PLUG 2:

Perforate squeeze holes @ 1,500'
CICR @ 1,450'
12 sx of Class G Cmt.
Cement from 1,450' - 1,086' (tagged TOC)

PLUG 1:

Set CIBP @ 3,002'
Top w/ 12 sx Class G Cmt.
(477' plug)
Tagged TOC @ 2,525'

PBTD: 3,166'