

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

**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.**

RECEIVED

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

NOV 10 2014

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. SF078909
2. Name of Operator ENERGEN RESOURCES CORPORATION		6. If Indian, Allottee or Tribe Name
3a. Address 2010 Afton Place, Farmington, NM 87401	3b. Phone No. (include area code) 505.325.6800	7. If Unit or CA/Agreement, Name and/or No. Lindrith Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1650' FSL 1090' FWL Sec. 21 T24N R02W (L)		8. Well Name and No. Lindrith Unit 7
		9. API Well No. 30-039-05367
		10. Field and Pool, or Exploratory Area S. Blanco Pictured Cliffs
		11. County or Parish, State Rio Arriba NM

12. CHECK 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"/> Fracture Treat	<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 recomplate 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources intends to plug and abandon the Lindrith Unit #7 according to attached downhole and reclamation procedures.

This will be a closed loop operation. NMOCD will be notified 24 hrs prior to commencing operations.

**OIL CONS. DIV DIST. 3**

NOV 18 2014

**SEE ATTACHED FOR  
CONDITIONS OF 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

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Kyle Mason	Title District Engineer
Signature <i>[Signature]</i>	Date 11/7/2014

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

Approved by Troy Salvors	Title Petroleum Eng.	Date 11/14/2014
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 FFO	

# Lindrith Unit #7

## Current

South Blanco Pictured Cliffs

1650' FSL, 1090' FWL, Section 21, T-24-N, R-2-W,

Rio Arriba County, NM / API #30-039-05367

Lat \_\_\_\_\_ / Long \_\_\_\_\_

Today's Date: 11/7/2014

Spud: 5/28/56

Completed: 7/8/56

Elevation: 7159' GI

13-3/14" hole

9-5/8" 25.4# Casing set @ 133'  
Cement with 125 sxs (Circulated to Surface)

Nacimiento @ 1228\* est

148 jts, 2" tubing landed at 3108'

TOC @ 2480' (T.S.)

Ojo Alamo @ 2698'

OIL CONS. DIV DIST. 3

NOV 18 2014

Kirtland @ 2862'

Fruitland @ 2955'

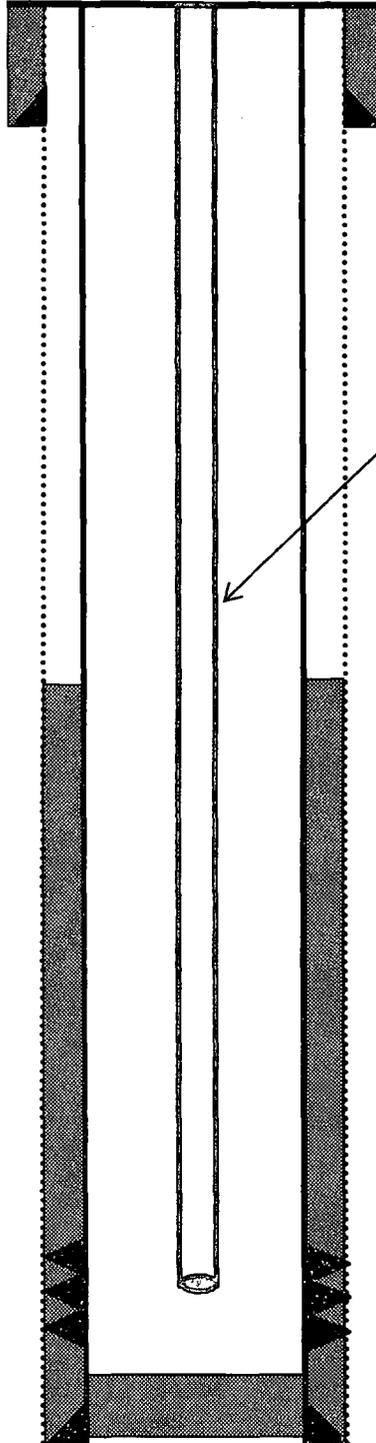
Pictured Cliffs @ 3115'

Pictured Cliffs Perforations:  
3104' - 3143'

5.5", 15.5#, J-55 Casing set @ 3108'  
Cement with 150 sxs

8-3/4" hole

TD 3180'  
PBTD 3150'

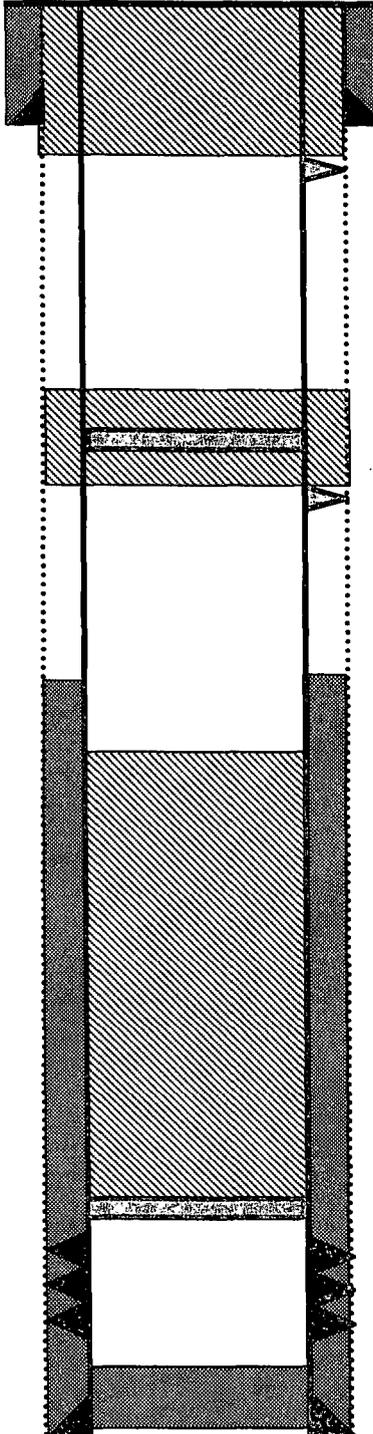


# Lindrith Unit #7 Proposed P&A

South Blanco Pictured Cliffs  
1650' FSL, 1090' FWL, Section 21, T-24-N, R-2-W,  
Rio Arriba County, NM / API #30-039-05367  
Lat \_\_\_\_\_ / Long \_\_\_\_\_

Today's Date: 11/7/2014  
Spud: 5/28/56  
Completed: 7/8/56  
Elevation: 7159' GI

13-3/14" hole



9-5/8" 25.4# Casing set @ 133'  
Cement with 125 sxs (Circulated to Surface)

**Set CR @ 183'**

**Plug #3: 183' - 0'**  
Class B cement, 80 sxs

Nacimiento @ 1228' est

**Set CR @ 1228'**

**Plug #2: 1278' - 1178'**  
Class B cement, 60 sxs:  
43 outside and 17 inside

**Perforate @ 1278'**

TOC @ 2480' (T.S.)

Ojo Alamo @ 2698'

**Plug #1: 3054' - 2648'**  
Class B cement, 52 sxs

Kirtland @ 2862'

**OIL CONS. DIV DIST. 3**

**NOV 18 2014**

Fruitland @ 2955'

**Set CR @ 3054'**

Pictured Cliffs @ 3115'

Pictured Cliffs Perforations:  
3104' - 3143'

5.5", 15.5#, J-55 Casing set @ 3108'  
Cement with 150 sxs

8-3/4" hole

**TD 3180'**  
**PBTD 3150'**

# PLUG AND ABANDONMENT PROCEDURE

November 7, 2014

## Lindrith Unit #7

South Blanco Pictured Cliffs

1650' FSL, 1090' FWL, Section 21, T24N, R2W, Rio Arriba County, New Mexico

API 30-039-05367 / Long \_\_\_\_\_ / Lat: \_\_\_\_\_

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project will use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes \_\_\_\_\_, No X, Unknown\_\_\_\_\_.  
Tubing: Yes X, No \_\_\_\_\_, Unknown\_\_\_\_\_, Size 2", Length 3108'.  
Packer: Yes \_\_\_\_\_, No X, Unknown\_\_\_\_\_, Type \_\_\_\_\_.

If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. Note: LD 2" tubing and PU workstring. Round trip gauge ring or casing scraper to 3054' or as deep as possible.

4. **NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface or where a CBL log was not previously run. This procedure is prepared with the understanding that it may be modified based on the TOC from the CBL.**
5. **Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops 3054' – 2648')**: TIH and set 5.5" CR at 3054'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 800#. *If the casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 52 sxs Class B cement and spot a balanced plug inside the casing above the CR to isolate the Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops. TOH.
6. **Plug #2 (Nacimiento top 1278' – 1178')**: *See COA* Perforate squeeze holes at 1278'. Attempt to establish rate if the casing pressure tested. TIH and set CR at 1228'. Mix and pump 60 sxs Class B cement, squeeze 43 sxs outside 5.5" casing and leave 17 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.
7. **Plug #3 (9-5/8" surface casing shoe, 183' - Surface)**: Perforate 3 squeeze holes at 183'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 80 sxs Class B cement and pump down the 5.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
8. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations.

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: Lindrith Unit #7

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. Set plug #2 (1392-1292) ft. inside/outside to cover the Nacimiento formation top

Operator will run a CBL from 3054 ft., or as deep as possible, to verify cement top. Outside plugs may be revised, based on CBL result. Submit electronic copy of the log for verification to the following BLM and NMOCD address: [tsalyers@blm.gov](mailto:tsalyers@blm.gov), [Brandon.Powell@state.nm.us](mailto: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.