

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.

AUG 25 2014

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. SF078912
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) 900' FSL 1700' FWL Sec. 12 T24N R03W (N) SE/SW		8. Well Name and No. Lindrith Unit 77
		9. API Well No. 30-039-20919
		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"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<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
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other _____

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 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 #77 according to attached downhole and reclamation procedures.

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

RCUD SEP 2 '14
OIL CONS. DIV.

DIST. 3

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

Notify NMOCD 24 hrs prior to beginning operations

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Kyle Mason	Title District Engineer
Signature <i>Kyle Mason</i>	Date 08/25/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Troy Salyers	Title Petroleum Eng.	Date 8/27/2014
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	

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

NMOCD

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PLUG AND ABANDONMENT PROCEDURE

May 7, 2014

Lindrith #77

South Blanco Pictured Cliffs

900' FSL, 1700' FWL, Section 12, T24N, R3W, Rio Arriba County, New Mexico

API 30-039-20919 / 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 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 _____, No X, Unknown_____, Size _____, Length _____.
Packer: Yes _____, No X, Unknown_____, Type _____.
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. Round trip 2.875" gauge ring to 3256' or as deep as possible. **Will need 3256' of tubing workstring.**
4. **Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3256'- 2706')**: TIH and set 2-7/8" wireline CIBP at 3256'. TIH with tubing and tag CIBP. 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 17 sxs Class B cement and spot a balanced plug inside the casing above the CIBP (in 2 stages) to isolate the Pictured Cliffs interval and cover through the Ojo Alamo top. TOH with tubing.
See COA
5. **Plug #2 (Nacimiento top, 1384' – 1284')**: Perforate 3 squeeze holes at 1384'. Set 2-7/8" wireline set cement retainer at 1334'. Mix 40 sxs Class B cement squeeze 35 sxs outside casing and leave 5 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.
6. **Plug #3 (8-5/8" surface casing shoe, 181' - Surface)**: Perforate 3 squeeze holes at 180'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 65 sxs Class B cement and pump down the 2-7/8" casing to circulate good cement out bradenhead. Shut in well and WOC.
7. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Cut off anchors and clean up location. Restore location per BLM stipulations.

Lindrith #77

Current

South Blanco Pictured Cliffs

900' FSL & 1700' FWL, Section 12, T-24-N, R-3-W, Rio Arriba County, NM

Lat: N _____ / Long: W _____ / API #30-039-20919

Today's Date: 5/7/14
Spud: 7/3/74
Completed: 11/12/74
Elevation: 7070' GI

12.25" hole

8-5/8" 24#, Casing set @ 131'
Cmt with 106 cf (Circulated to Surface)

Nacimiento @ 1334' *est

TOC 2450' (T.S.)

Ojo Alamo @ 2756' *est

Kirtland @ 3007' *est

Fruitland @ 3067' *est

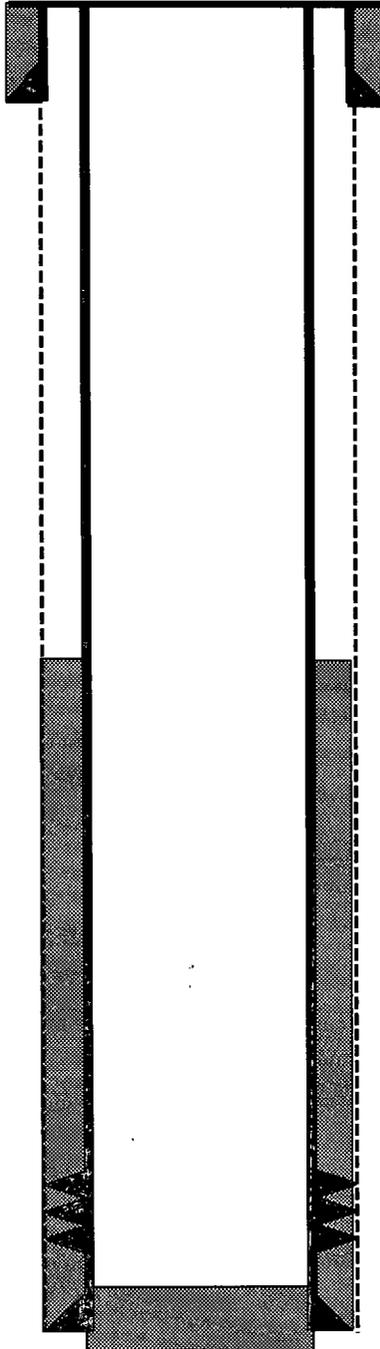
Pictured Cliffs @ 3218'

Pictured Cliffs Perforations:
3306' - 3334'

6-3/4" Hole

2-7/8" 6.4#, H-40 Casing set @ 3374'
Cement with 130 cf

TD 3374'
PBD 3363'



Lindrith #77 Proposed P&A

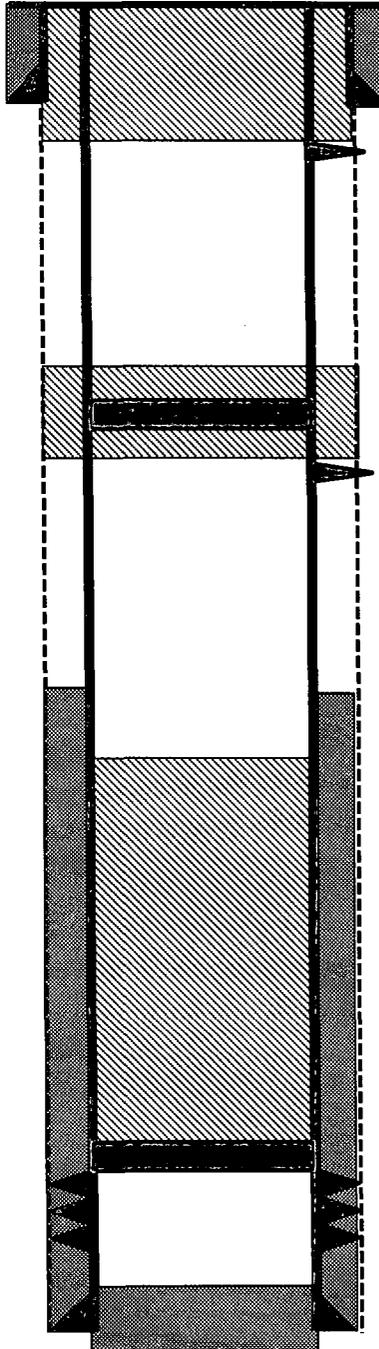
South Blanco Pictured Cliffs

900' FSL & 1700' FWL, Section 12, T-24-N, R-3-W, Rio Arriba County, NM

Lat: N _____ / Long: W _____ / API #30-039-20919

Today's Date: 5/7/14
Spud: 7/3/74
Completed: 11/12/74
Elevation: 7070' GI

12.25" hole



8-5/8" 24#, Casing set @ 131'
Cmt with 106 cf (Circulated to Surface)

Perforate @ 181'

Plug #3: 181' - 0'
Class B cement, 65 sxs

Plug #2: 1384' - 1284'
Class B cement, 40 sxs:
35 outside and 5 inside

Cement Retainer @ 1334'

Perforate @ 1384'

TOC at 2450' (T.S.)

Nacimiento @ 1334' *est

Ojo Alamo @ 2756' *est

Kirtland @ 3007' *est

Fruitland @ 3067' *est

Pictured Cliffs @ 3218'

Plug #1: 3256' - 2706'
Class B cement, 17 sxs (2 stages)

Set CIBP @ 3256'

Pictured Cliffs Perforations:
3306' - 3334'

6-3/4" Hole

2-7/8" 6.4#, H-40 Casing set @ 3374'
Cement with 130 cf

TD 3374'
PBSD 3363'

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 #77

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 from (1448-1338) ft. inside/outside to cover the Nacimiento formation top.

Operator must run a CBL from 3256 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, 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.