

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. NMSF 078912
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) 800' FSL, 1550' FEL, Sec. 10, T24N, R03W, N.M.P.M. NW/NW		8. Well Name and No. Lindrith Unit 48
		9. API Well No. 30-039-05519
		10. Field and Pool, or Exploratory Area E. 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 recompleat 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 recompleat 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 permanently Plug and Abandon the Lindrith Unit 48 according to the attached downhole and reclamation procedures.

RCVD SEP 4 '14
OIL CONS. DIV.
DIST. 3

This will be a closed loop procedure. NMOC will be notified 24 hrs prior to commencing operation

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 NMOC 24 hrs prior to beginning operations

SEE ATTACHED FOR CONDITIONS OF APPROVAL



H₂S POTENTIAL EXIST

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 8/25/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Troy Salvors	Title Petroleum Eng.	Date 9/2/2014
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.

NMOC

PLUG AND ABANDONMENT PROCEDURE

June 10, 2013

Lindrith Unit #48

So. Blanco Pictured Cliffs Ext.

800' FSL, 1550' FEL, Section 10, T24N, R3W, Rio Arriba County, New Mexico

API 30-039-00280 / 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 requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the 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 _____, 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. Note: Will need to pick up tubing workstring. Round trip 2.875" gauge ring or casing scraper to 1306' or as deep as possible.

See COA

4. **Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3203' – 2719'):**
Note: If setting Plug #1 at end of day then establish rate into perforations with water. Mix and pump total 18 sxs cement (long plug, 30% excess) and bullhead down 2.875" casing: first pump 8 sxs cement, then drop 10 RCN balls, pump pump remaining 10 sxs cement and do not displace. Double valve and SI well. WOC and tag in morning. Top off plug if necessary. If plug is set at beginning of day then R/T scraper to 3049'. Pressure test casing to 800 PSI. Mix and pump 11 sxs Class B cement inside casing to cover through the Ojo Alamo top. TOH with tubing.
5. **Plug #2 (Nacimiento top, 1356' – 1256'):** **See COA**
Perforate squeeze holes at 1356'. Attempt to establish rate if the casing pressure tested. Set 2.875" cement retainer at 1306'. Establish rate into squeeze holes. Mix and pump 34 sxs Class B cement, squeeze 29 sxs outside 2.875" 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, 189' - Surface):** Perforate squeeze holes at 189'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 60 sxs Class B cement and pump down the 2.875" 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. RD, MOL and cut off anchors. Restore location per BLM stipulations.

Lindrith Unit #48

Current

So. Blanco Pictured Cliffs

800' FSL, 1550' FEL, Section 10, T-24-N, R-3-W,

Rio Arriba County, NM / API #30-039-05519

Lat _____ / Long _____

Today's Date: 610/13

Spud: 9/3/63

Completed: 9/18/63

Elevation: 6920' GL
6930' DF

12-1/4" hole

8-5/8", 24#, J-55 Casing set @ 139'
Cement with 95 sxs (Circulated to Surface)

Nacimiento @ 1306' *est

TOC @ 2460' (T.S.)

Ojo Alamo @ 2769'

Kirtland @ 2845'

Fruitland @ 3000'

Pictured Cliffs @ 3096'

Pictured Cliffs Perforations:
3099' - 3153'

6-1/4" hole

2-7/8", 6.4#/6.5#, used Casing set @ 3212'
Cement with 140 sxs

TD 3215'

Lindrith Unit #48

Proposed P&A

So. Blanco Pictured Cliffs

800' FSL, 1550' FEL, Section 10, T-24-N, R-3-W,

Rio Arriba County, NM / API #30-039-05519

Lat _____ / Long _____

Today's Date: **610/13**

Spud: 9/3/63

Completed: 9/18/63

Elevation: 6920' GL
6930' DF

12-1/4" hole

Nacimiento @ 1306' *est

Ojo Alamo @ 2769'

Kirtland @ 2845'

Fruitland @ 3000'

Pictured Cliffs @ 3096'

6-1/4" hole

TD 3215'

8-5/8", 24#, J-55 Casing set @ 139'
Cement with 95 sxs (Circulated to Surface)

Perforate @ 189' **Plug #3: 189' - 0'**
Class B Cement, 60 sxs

See COA
Set CR @ 1306' **Plug #2: 1356' - 1256'**
Class B Cement, 34 sxs:
29 outside and 5 sxs inside

Perforate @ 1356'

TOC @ 2460' (T.S.)

See COA
Plug #1: 3203' - 2719'
Class B Cement, 18 sxs

Pictured Cliffs Perforations:
3099' - 3153'

2-7/8", 6.4#/6.5#, used Casing set @ 3212'
Cement with 140 sxs

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 #48

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. The following modifications to your plugging program are to be made:
 - a) Bring the top of plug #1 to 2618 ft. to cover the Ojo Alamo top. Adjust cement volume accordingly.
 - b) Bring the top of plug #2 to 1224 ft. to inside/outside cover the Nacimiento top. Adjust cement volume accordingly.

Operator must run a CBL from 3203 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 address: tsalyers@blm.gov

Note: H2S has not been reported in this section; however, low concentrations of H2S (4-5 ppm GSV) have been reported in wells within a 1 mile radius of this location.

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.