

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: July 23, 2103

Application Type:

☒ P&A ☐ Drilling/Casing-Change ☐ Recomplete/DHC
☐ Location Change ☐ Other:

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf Owner	UL	Sec	Twp	N/S	Rng	W/E
30-039-05519-00-00	LINDRITH UNIT	048	ENERGEN RESOURCES CORPORATION	G	A	Rio Arriba	F	O	10	24	N	3	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Provide CBL to agencies for review prior to cementing.

A handwritten signature in black ink, appearing to read "Brandon Pelt", is written over a horizontal line.

NMOCD Approved by Signature

5.9.14
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

SUNDRY NOTICES AND REPORTS ON WELLS

JUL 25 2013

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Field Office
Bureau of Land Management

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

505.325.6800

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

5. Lease Serial No.

NMSF 078912

6. If Indian, Allottee or Tribe Name

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

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

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|--|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <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 recompleate 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 recompleation 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 produced the Lindrith Unit 48 on a trailered compression unit for the month of May, 2013. After reviewing the compression test results, it was decided that putting the well on compression would be un-economic. Therefore, Energen Resources intends to permanently Plug and Abandon the Lindrith Unit 48 according to the attached procedure.

RCVD APR 11 '14
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Collin Plagke

Title Production Engineer

Signature

Collin Plagke

Date 7/23/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date APR 10 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

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 DIV

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 30-039-09288 / 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.

4. **Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3203' – ²⁶¹⁸2719')**:
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, ¹³²⁴1356' – ¹²²⁴1256')**: Perforate squeeze holes at ¹³²⁴1356'. Attempt to establish rate if the casing pressure tested. Set 2.875" cement retainer at ¹³²⁴1306'. 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

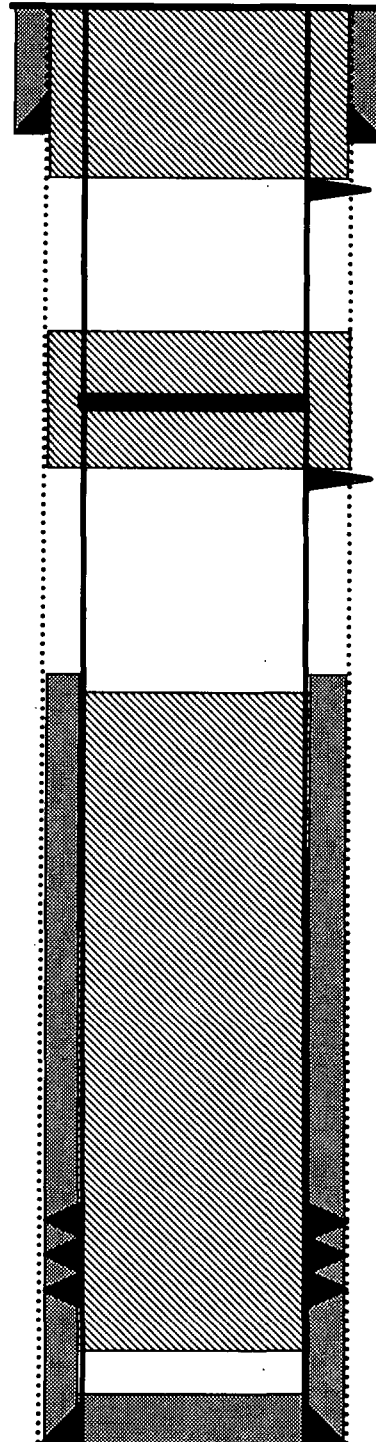
Ojo Alamo @ 2769'

Kirtland @ 2845'

Fruitland @ 3000'

Pictured Cliffs @ 3096'

6-1/4" hole



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

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

Perforate @ 1356'

TOC @ 2460' (T.S.)

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

TD 3215'

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: 48 Lindrith Unit

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 the Pictured Cliffs/Fruitland/Kirtland/Ojo Alamo plug to 2618'.
 - b) Place the Nacimiento plug from 1324'- 1224' inside and outside the 2 7/8" casing.

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.