

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JAN 13 2012

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.

5. Lease Serial No.

078201-A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Riddle A 5

9. API Well No.

30-045-08643

10. Field and Pool, or Exploratory Area  
Blanco Pictured Cliffs

11. County or Parish, State

San Juan NM

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)

990' FSL, 1650' FEL, sec. 1, T. 29N., R. 9W.

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

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off  
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity  
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other  
☐ Change Plans ☒ Plug and Abandon ☐ Temporarily Abandon  
☐ Convert to Injection ☐ Plug Back ☐ 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 intends to Plug and Abandon the Riddle A 5 according to the attached procedure.

Notify NMOCD 24 hrs  
prior to beginning  
operations

RCVD JAN 27 '12

OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Collin Placke

Title District Engineer

Signature

Collin Placke

Date 1/12/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JAN 20 2012

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.

## PLUG AND ABANDONMENT PROCEDURE

January 10, 2012

### Riddle A #5

Blanco Pictured Cliffs

990' FSL, 1650' FEL, Section 1, T29N, R9W, San Juan County, New Mexico

API 30-045-08643 / 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 X, No\_\_\_\_, Unknown\_\_\_\_, Size 1-1/4", Length 3070'.  
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 3070' or as deep as possible.
4. **Plug #1 (Pictured Cliffs interval and Fruitland tops, 3008' – 2707')**: TIH and set 2-7/8" wireline CIBP at 3008'. 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 10 sxs Class B cement and spot a balanced plug inside the casing above the CR or CIBP to isolate the Pictured Cliffs interval and cover the Fruitland top. TOH with tubing.
5. **Plug #2 (Kirtland and Ojo Alamo tops, 2139' - 1877')**: Perforate 3 squeeze holes at 2139'. Set 2-7/8" wireline cement retainer at 2089'. Mix 140 sxs Class B cement squeeze 131 sxs outside casing and leave 9 sxs inside casing to cover Kirtland and Ojo Alamo tops. TOH with tubing.
6. **Plug #3 (Nacimiento top, <sup>604</sup>680' – <sup>504</sup>580')**: Perforate 3 squeeze holes at <sup>604</sup>680'. Set 2-7/8" cement retainer at <sup>604</sup>680'. Mix 55 sxs Class B cement squeeze 50 sxs outside casing and leave 5 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.
7. **Plug #4 (9-5/8" surface casing shoe, 375' - Surface)**: Perforate 3 squeeze holes at 375'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 180 sxs Class B cement and pump down the 2-7/8" casing to circulate good cement out bradenhead. Shut in well and WOC.
8. 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.

# Riddle A #5

## Current

Blanco Pictured Cliffs

990' FSL & 1650' FEL, Section 1, T-29-N, R-9-W, San Juan County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-045-08643

Today's Date: 1/10/12  
Spud: 9/10/62  
Completed: 9/23/62  
Elevation: 6422' GI  
7432' KB

12.25" hole

9-5/8" 42.5#, S-95 Casing set @ 325'  
Cmt with 200 sxs (Circulated to Surface)

Nacimiento @ 630' \*est

1-1/4" IJ tubing at 3070'  
(96 jts, 2.33# NU, J-55)

Ojo Alamo @ 1927'

Kirtland @ 2089'

TOC at 2240' (T.S.)

Fruitland @ 2757'

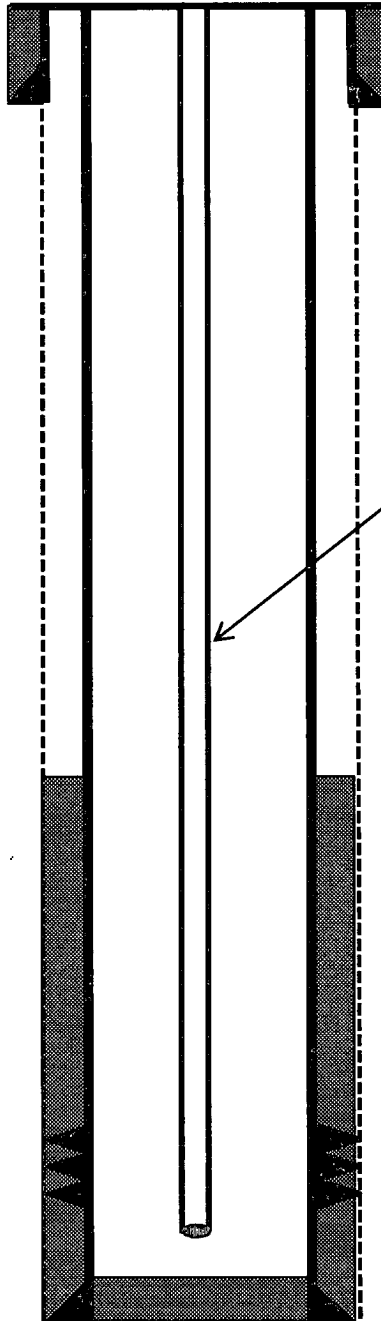
Pictured Cliffs @ 3074'

Pictured Cliffs Perforations:  
3058' - 3068'

7-7/8" hole 3021'  
6-3/4" to TD

2-7/8" 6.4#, J-55 Casing set @ 3177'  
Cement with 185 sxs

TD 3184'  
PBTD 3177'



## Riddle A #5

### Proposed P&A

Blanco Pictured Cliffs

990' FSL & 1650' FEL, Section 1, T-29-N, R-9-W, San Juan County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-045-08643

Today's Date: 1/10/12  
Spud: 9/10/62  
Completed: 9/23/62  
Elevation: 6422' GI  
7432' KB

12.25" hole

9-5/8" 42.5#, S-95 Casing set @ 325'  
Cmt with 200 sxs (Circulated to Surface)

Perforate @ 375'

Plug #4: 375' – 0'  
Class B cement, 180 sxs

Nacimiento @ 630' \*est

Set CR @ 630'

Plug #3: 680' – 580'  
Class B cement, 55 sxs  
5 sxs inside and 50 sxs outside

Perforate @ 680'

Ojo Alamo @ 1927'

Plug #2: 2139' – 1877'  
Class B cement, 140 sxs  
9 sxs inside and 131 outside

Set CR @ 2089'

Perforate @ 2139'

TOC at 2240' (T.S.)

Kirtland @ 2089'

Plug #1: 3008' – 2707'  
Class B cement, 10 sxs

Fruitland @ 2757'

Set CIBP @ 3008'

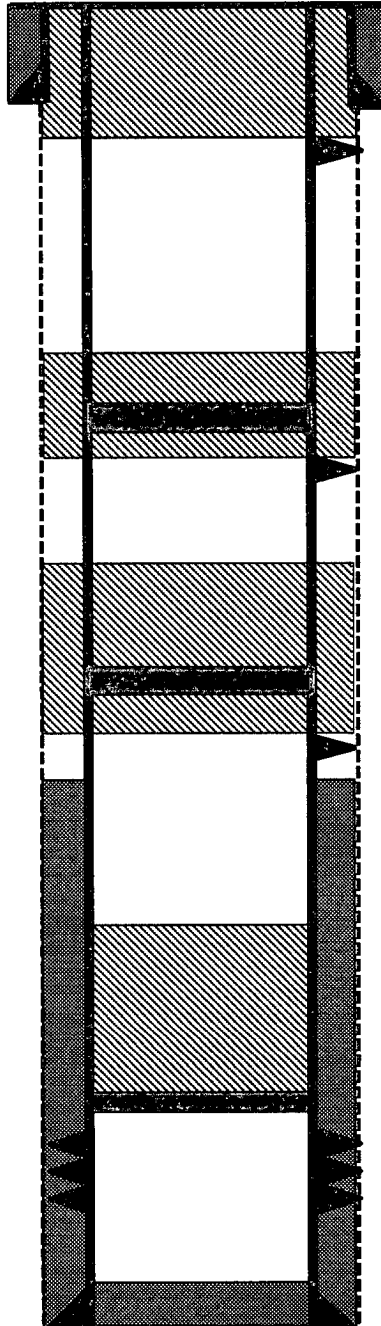
Pictured Cliffs @ 3074'

Pictured Cliffs Perforations:  
3058' – 3068'

7-7/8" hole 3021'  
6-3/4" to TD

2-7/8" 6.4#, J-55 Casing set @ 3177'  
Cement with 185 sxs

TD 3184'  
PBD 3177'



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 5 Riddle A

**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) 599-8907.
3. The following modifications to your plugging program are to be made:
  - a) Place the Nacimiento plug from 604' – 504' 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.