

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JUL 16 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.** Farmington Field Office, Bureau of Land Management

**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		7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator ENERGEN RESOURCES CORPORATION		8. Well Name and No. Ruddock 1
3a. Address 2010 Afton Place, Farmington, NM 87401	3b. Phone No. (include area code) 505-325-6800	9. API Well No. 30-039-06183
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1040' FNL, 1625' FEL, Sec. 3, T25N, R03W, Unit B		10. Field and Pool, or Exploratory Area Tapacito 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 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 plans to plug and abandon the Ruddock #1 according to the attached procedure

Notify NMOCD 24 hrs  
prior to beginning  
operations

RCVD JUL 23 '12  
OIL CONS. DIV.  
DIST. 3

Submit CBL for review prior to cementing plug #1

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Adam Klem		Title District Engineer
Signature 		Date 7/12/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason	Title District Engineer	Date JUL 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

NMOCD A

# Ruddock #1

## Current

Tapacito Pictured Cliffs

1040' FNL & 1625' FEL, Section 03, T-25-N, R-3-W, Rio Arriba County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-039-06183

Today's Date: 6/12/12

Spud: 11/25/56

Completed: 12/27/56

Elevation: 7439' GI

15" hole

10-3/4" 32.75#, H-40 Casing set @ 198'  
Cmt with 100 sxs (Circulated to Surface)

Nacimiento @ 1751' \*est

2-3/8" 4.7#, J-55 casing at 4050'

Ojo Alamo @ 3331' \*est

Isolate casing leaks 2323' - 2355'  
And 3703' - 3733' with total 235.8 cf cement (2011).

TOC unknown.

Kirtland @ 3650' \*est

Fruitland @ 3760'

Pictured Cliffs @ 4019'

Pictured Cliffs Perforations:  
4018' - 4043'

Retrievable Packer set at 4107'  
Lower zones plugged during completion  
Due to lost tools; no information on cement

DV Tool @ 4138' \*est  
Stage 2: Cement with 100 sxs

Mesaverde @ 5654'

Mancos @ 6292'

8-3/4" hole

5-1/2" 15.5#, J-55 Casing set @ 6260'  
Stage 1: Cement with 175 sxs

TD 6295'  
PBTD 4107'

# Ruddock #1

## Proposed P&A

Tapacito Pictured Cliffs

1040' FNL & 1625' FEL, Section 03, T-25-N, R-3-W, Rio Arriba County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-039-06183

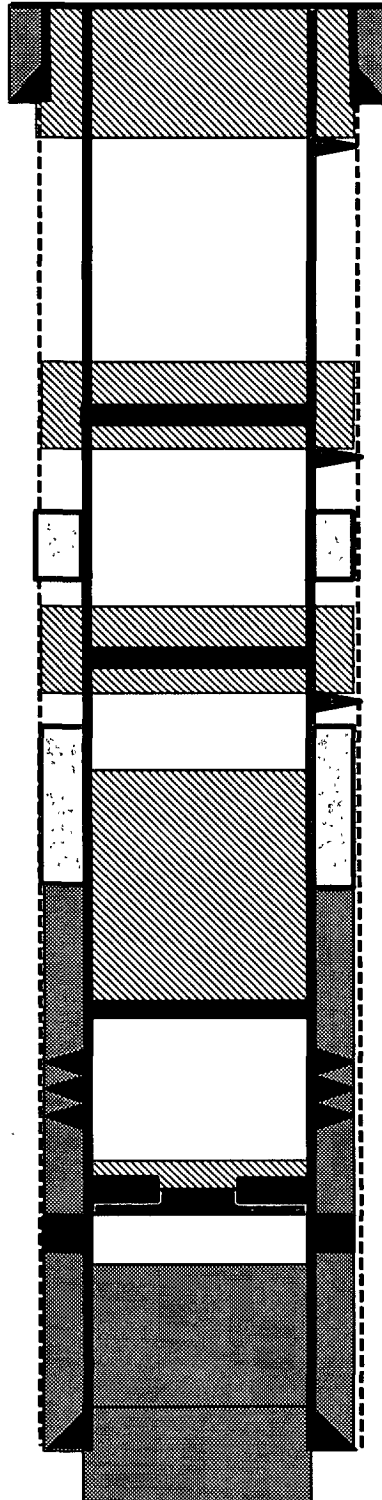
Today's Date: 6/12/12

Spud: 11/25/56

Completed: 12/27/56

Elevation: 7439' GI

15" hole



10-3/4" 32.75#, H-40 Casing set @ 198'  
Cmt with 100 sxs (Circulated to Surface)

Perforate @ 248'

Plug #5: 248' - 0'  
Class B cement, 120 sxs

Set CR @ 1751'

Plug #4: 1801' - 1701'  
Class B cement, 60 sxs:  
17 inside and 43 outside

Perforate @ 1801'

Set CR @ 3331'

Plug #3: 3381' - 3281'  
Class B cement, 60 sxs:  
17 inside and 43 outside

Isolate casing leaks 2323' - 2355'  
And 3703' - 3733' with total 235.8 cf cement (2011).

Perforate @ 3381'

TOC unknown.

Set CR @ 3968'

Plug #2: 3968' - 3600'  
Class B cement, 48 sxs

Pictured Cliffs Perforations:  
4018' - 4043'

Plug #1: 4107' - 4007'  
Class B cement, 17 sxs

Retrievable Packer set at 4107'  
Lower zones plugged during completion  
Due to lost tools; no information on cement

DV Tool @ 4138' \*est  
Stage 2: Cement with 100 sxs

5-1/2" 15.5#, J-55 Casing set @ 6260'  
Stage 1: Cement with 175 sxs

TD 6295'  
PBSD 4107'

# PLUG AND ABANDONMENT PROCEDURE

June 12, 2012

## Ruddock #1

Tapacito Pictured Cliffs

1040' FNL, 1625' FEL, Section 3, T25N, R3W, Rio Arriba County, New Mexico

API 30-039-06183 / 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 2-3/8", Length 4050'.  
Packer: Yes X, No \_\_\_\_\_, Unknown Baker, Type Retrievable.

If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. Round trip 5.5" gauge ring or casing scraper to 4107' or as deep as possible to tag packer or fill.

**NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface or where a T.S. or 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.**

4. **Plug #1 (abandoned interval: 4107' – 4007'):** Spot 17 sxs Class B cement inside casing above packer from 4107' to 4007' to isolate abandoned interval.
5. **Plug #2 (Pictured Cliffs interval and Fruitland, Kirtland tops, 3968' – <sup>3711</sup>3600'):** TIH and set 5.5" CR at 3968'. 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 48 sxs Class B cement and spot a balanced plug inside the casing above the CR to isolate the Pictured Cliffs interval and the Fruitland and Kirtland tops. TOH.
6. **Plug #3 (Ojo Alamo top, <sup>3614</sup>3381' – <sup>3510</sup>3281'):** Perforate 3 squeeze holes at 3381'. Establish injection rate into squeeze holes if casing tested. Set 5.5" cement retainer at 3331'. Sting into CR and establish injection rate. Mix <sup>60</sup>60 sxs Class B cement squeeze <sup>43</sup>43 sxs outside casing and leave 17 sxs inside casing to cover the Ojo Alamo top. TOH with tubing.
7. **Plug #4 (Nacimiento top, <sup>2327</sup>1801' – <sup>2227</sup>1701'):** Perforate 3 squeeze holes at <sup>2327</sup>1801'. Establish injection rate into squeeze holes if casing tested. Set 5.5" cement retainer at <sup>2327</sup>1751'. Sting into CR and establish injection rate. Mix 60 sxs Class B cement squeeze 43 sxs outside casing and leave 17 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.

8. **Plug #5 (10-3/4" surface casing shoe, 248' - Surface):** Perforate 3 squeeze holes at 248. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 120 sxs Class B cement and pump down the 5.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
9. 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.

**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: 1 Ruddock

**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) Place the Pictured Cliffs/Fruitland/Kirtland plug from 3968' – 3711'.
  - b) Place the Ojo Alamo plug from 3618' – 3518' inside and outside the 5 ½" casing.
  - c) Place the Nacimiento plug from 2327' – 2227' inside and outside the 5 ½" 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.