

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

RECEIVED

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.

JUN 30 2014

SUBMIT IN TRIPLICATE - Other instructions on page 2

Lease Serial No.  
Jicarilla Contract 67  
6. If Indian, Allottee or Tribe Name  
Jicarilla Apache  
7. If Unit or CA/Agreement, Name and/or No.  
8. Well Name and No.  
Jicarilla 67 #18  
9. API Well No.  
30-039-21307  
10. Field and Pool, or Exploratory Area  
S. Blanco Pictured Cliffs/  
Otero Chacra  
11. County or Parish, State  
Rio Arriba NM

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)  
 1850' FSL 820' FEL Sec. 19 T25N R05W N.M.P.M. (I) NE/SE

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 recomplate 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 recomplate 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 Jicarilla 67 #18 according to the attached procedure.

OIL CONS. DIV DIST. 3  
JUL 14 2014

Notify NMOCD 24 hrs  
prior to beginning  
operations

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

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Name (Printed/Typed)  
Anna Stotts

Signature *Anna Stotts*

Title  
Regulatory Analyst

Date  
06/26/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *Troy Salyers*

Title *Petroleum Engineer*

Office *FFO*

Date *7/7/2014*

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.

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

## PLUG AND ABANDONMENT PROCEDURE

April 21, 2014

### Jicarilla 67-18

South Blanco Pictured Cliffs / Otero Chacra Extension  
1850' FSL and 820' FEL, Section 19, T25N, R5W, Rio Arriba County, New Mexico  
API 30-039-21307 / Lat: \_\_\_\_\_ / Long: \_\_\_\_\_

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.

This project will use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

1. 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.
2. 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.

### Pictured Cliffs P&A:

4. **Plug #1 CH (Chacra perforations and top, 3446' – 3346')**: Round trip 2.875" casing scraper or gauge ring to 3446'. RIH and set 2.875" wireline CIBP at 3446'. TIH with tubing and tag CIBP at 3446'. Load casing with water and circulate well clean. Pressure test casing to 500#. *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 CIBP to isolate the Chacra interval. PUH with tubing.
5. **Plug #2 CH (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 2670' – 2000')**: TIH with open ended tubing. Spot 20 sxs Class B cement inside casing to cover through the Ojo Alamo tops. PUH with tubing. WOC if necessary.
6. **Plug #3 CH (Nacimiento top and Surface casing, 715' – Surface)**: TIH with open ended tubing. Mix approximately 20 sxs Class B cement from 715' to surface, circulate good cement out the casing valve. Shut in well and WOC.
7. **Plug #1 PC (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 2584' – 2000')**: Round trip 2.875" casing scraper or gauge ring to 2584'. RIH and set 2.875" wireline CIBP at 2584'. TIH with tubing and tag CIBP at 2584'. Load casing with water and circulate well clean. Pressure test casing to 500#. *If the casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 18 sxs Class B cement and spot a balanced plug inside the casing above the CIBP to isolate the PC interval and cover through the Ojo Alamo top. TOH with tubing.

8. **Plug #2 PC (Nacimiento top, 715' – 615')**: Perforate 3 squeeze holes at 715'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 2.875" cement retainer at ~~715'~~ **665'**. Establish rate into squeeze holes. Mix and pump 61 sxs Class B cement, squeeze 56 sxs outside the casing and leave 5 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.
9. **Plug #3 PC (Surface casing, 187' – Surface)**: Perforate 3 squeeze at 187'. Establish circulation out bradenhead and casing valve. Mix 80 sxs Class B cement and pump down PC casing and circulate good cement out casing valve and bradenhead valve. SI well and WOC.
10. 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.

# Jicarilla 67-18 Current

Otero Chacra Ext. / So. Blanco Pictured Cliffs

1850' FSL & 820' FEL, Section 19, T-25-N, R-5-W, Rio Arriba County, NM

Lat: \_\_\_\_\_ / Long: \_\_\_\_\_ / API 30-039-21307

Today's Date: 4/21/14  
Spud: 5/17/77  
Comp: 6/30/77  
Elevation: 6597' GL

13.75" Hole

9.625" 32.3#, H-40 Casing set @ 137'  
Cement with 142 cf, circulated to surface

Nacimiento @ 665' \*est

TOC @ 1850' (TS)

Ojo Alamo @ 2050'

Kirtland @ 2225' \*est

Fruitland @ 2375' \*est

Pictured Cliffs @ 2620'

Pictured Cliffs Perforations:  
2634' - 2652', Squeezed PC Perfs  
with 75 sxs and re-perf'd (1977)

2.875" 6.4#, J-55 Casing @ 2753'  
Cement with 324 cf

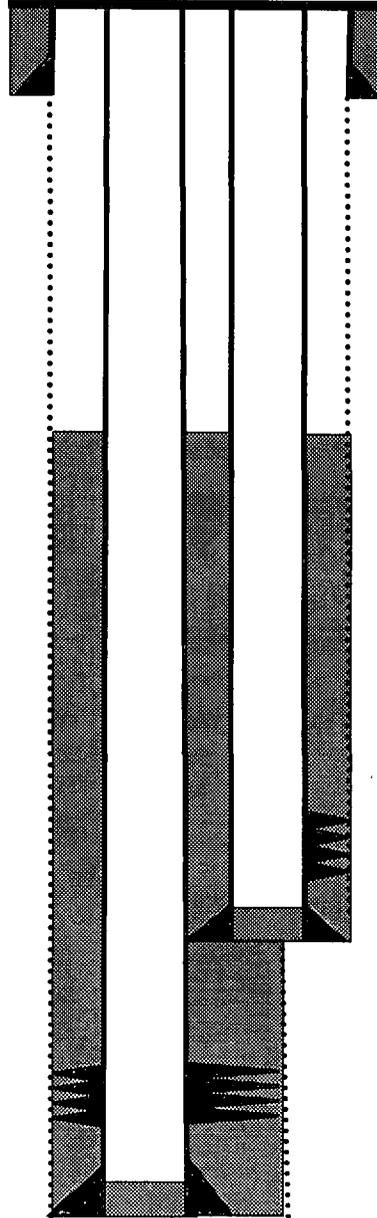
Chacra @ 3474'

Chacra Perforations:  
3496' - 3513'

6.75" /  
8.75" Hole

2.875" 6.4#, J-55 Casing @ 3632'  
Cement with 300 cf

3632' TD  
3622' CH PBTD  
2743' PC PBTD



# Jicarilla 67-18 Proposed P&A

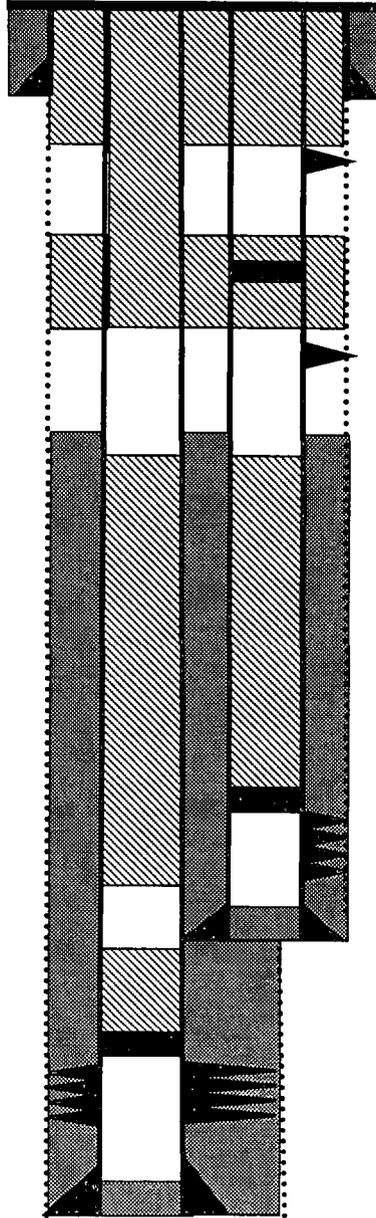
Otero Chacra Ext. / So. Blanco Pictured Cliffs

1850' FSL & 820' FEL, Section 19, T-25-N, R-5-W, Rio Arriba County, NM

Lat: \_\_\_\_\_ / Long: \_\_\_\_\_ / API 30-039-21307

Today's Date: 4/21/14  
Spud: 5/17/77  
Comp: 6/30/77  
Elevation: 6597' GL

13.75" Hole



9.625" 32.3#, H-40 Casing set @ 137'  
Cement with 142 cf, circulated to surface

Perforate @ 187'

Plug #3 PC: 187' - 0'  
Class B cement, 80 sxs

Set CR @ 665'

Plug #3 Chacra: 715' - 0'  
Class B cement, 20 sxs

Perforate @ 715'

TOC @ 1850' (TS)

Plug #2 PC: 715' - 615'  
Class B cement, 61 sxs  
56 outside and 5 inside

Ojo Alamo @ 2050'

Kirtland @ 2225' \*est

Fruitland @ 2375' \*est

Pictured Cliffs @ 2620'

Pictured Cliffs Perforations:  
2634' - 2652', Squeezed PC Perfs  
with 75 sxs and re-perf'd (1977)

Set CIBP @ 2584'

Plug #1 PC: 2584' - 2000'  
Class B cement, 18 sxs

2.875" 6.4#, J-55 Casing @ 2753'  
Cement with 324 cf

Plug #2 Chacra: 2670' - 2000'  
Class B cement, 20 sxs

Set CIBP @ 3446'

Plug #1 Chacra: 3446' - 3346'  
Class B cement, 10 sxs

Chacra Perforations:  
3496' - 3513'

2.875" 6.4#, J-55 Casing @ 3632'  
Cement with 300 cf

Chacra @ 3474'

6.75" /  
8.75" Hole

3632' TD  
3622' CH PBT  
2743' PC PBT

**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: Jicarilla 67 #18

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

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.