

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: November 27, 2013

Application Type:

- P&A   
  Drilling/Casing Change   
  Recomplete/DHC  
 Location Change   
  Other: \_\_\_\_\_

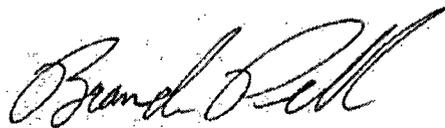
Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-039-22119-00-00	JICARILLA 67	020	ENERGEN RESOURCES CORPORATION	G	A	Rio Arriba	J	E	30	25	N	5	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Run CBL to verify TOC and submit it to agencies for review prior to cementing



\_\_\_\_\_  
NMOCD Approved by Signature

12-19-13  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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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. **DEC 03 2013**

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No. Jicarilla Contract 67

6. If Indian, Allottee or Tribe Name Jicarilla Apache

7. Well Unit or CA/Agreement, Name and/or No. Blanco PC South

8. Well Name and No. Jicarilla 67 #20

9. API Well No. 30-039-22119

10. Field and Pool, or Exploratory Area Blanco PC South

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)  
1830' ENL, 1170' FWL, Sec. 30, T25N, R05W, N.M.P.M. (E) SW/NW

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 plans to plug and abandon the subject well as per the attached.

OIL CONS. DIV DIST. 3

DEC 09 2013

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

Name (Printed/Typed) Anna Stotts Title Regulatory Analyst

Signature Anna Stotts Date 11/27/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason Title \_\_\_\_\_ Date DEC 15 2013

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 \_\_\_\_\_

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AV

## PLUG AND ABANDONMENT PROCEDURE

May 17, 2013

### Jicarilla 67 #20

#### Undesignated Pictured Cliffs

1830' FNL, 1170' FWL, Section 30, T25N, R5W, Rio Arriba County, New Mexico

API 30-039-22119 / 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. Round trip 2.875" gauge ring to 2512' or as deep as possible. PU tubing workstring.
4. **Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 2512' – 2044')**: TIH and set 2-7/8" wireline CIBP at 2512'. 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 15 sxs Class B cement and spot a balanced plug (2-stages) inside the casing above the CIBP to isolate the Pictured Cliffs interval and cover through the Ojo Alamo tops. TOH with tubing.
5. **Plug #2 (Nacimiento top, <sup>650</sup>589' – <sup>550</sup>489')**: Perforate 3 squeeze holes at <sup>650</sup>589'. Set 2-7/8" wireline set cement retainer at <sup>550</sup>539'. Mix 40 sxs Class B cement squeeze 35 sxs outside 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, 180' - Surface)**: Perforate 3 squeeze holes at 180'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 65 sxs Class B cement and pump down the 2-7/8" 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.

# Jicarilla 67 #20

## Current

### Undesignated Pictured Cliffs

1830' FNL & 1170' FWL, Section 30, T-25-N, R-5-W, Rio Arriba County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-039-22119

Today's Date: 5/17/13  
Spud: 9/17/79  
Completed: 10/15/79  
Elevation: 6599' GI

12.25" hole

8-5/8" 24#, k-55 Casing set @ 130'  
Cmt with 112 cf (Circulated to Surface)

Nacimiento @ 539' \*est

TOC at 1900' (T.S.)

Ojo Alamo @ 2094' \*est

Kirtland @ 2214' \*est

Fruitland @ 2382' \*est

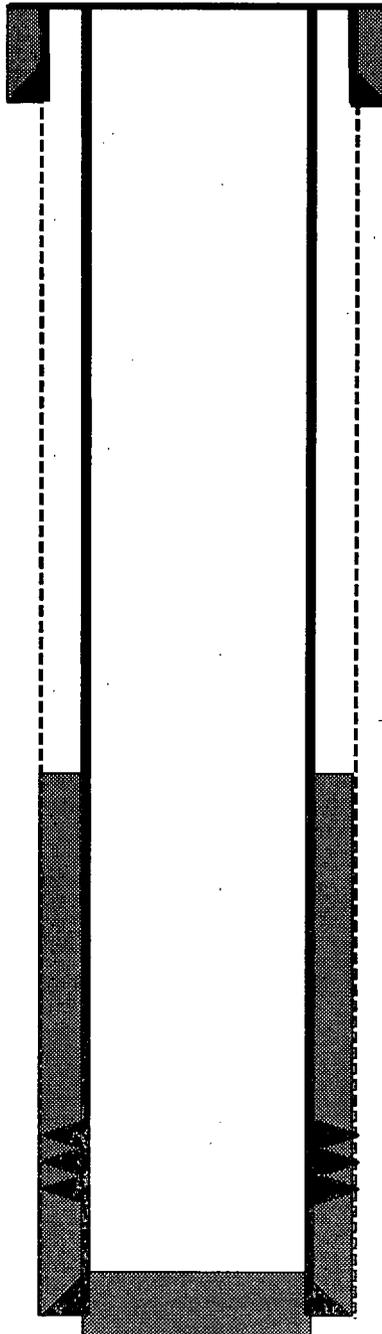
Pictured Cliffs @ 2562'

Pictured Cliffs Perforations:  
2562' - 2600'

6-3/4" Hole

2-7/8" 6.4#, J-55 Casing set @ 2654'  
Cement with 195 cf

TD 2666'  
PBTD 2655'



# Jicarilla 67 #20

## Proposed P&A

Undesignated Pictured Cliffs

1830' FNL & 1170' FWL, Section 30, T-25-N, R-5-W, Rio Arriba County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-039-22119

Today's Date: 5/17/13  
Spud: 9/17/79  
Completed: 10/15/79  
Elevation: 6599' GI

12.25" hole

Nacimiento @ 539' \*est

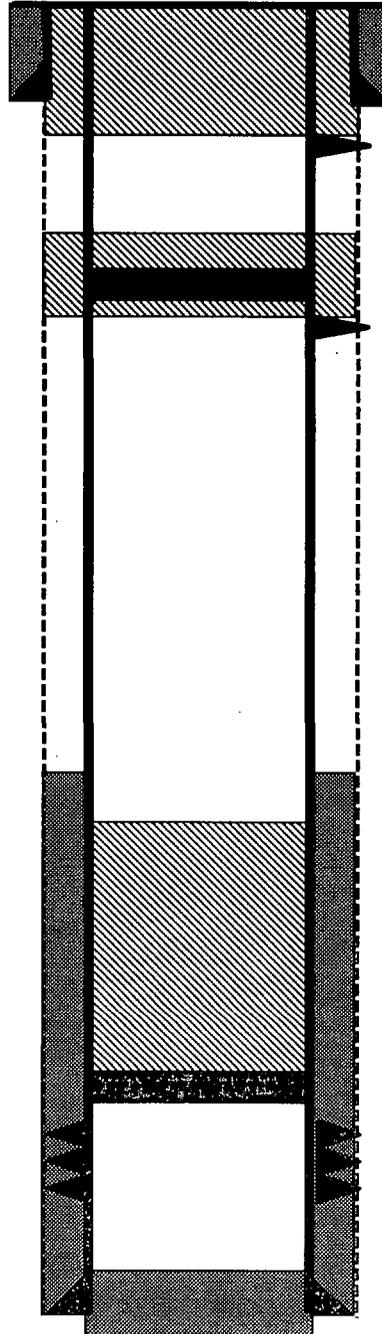
Ojo Alamo @ 2094' \*est

Kirtland @ 2214' \*est

Fruitland @ 2382' \*est

Pictured Cliffs @ 2562'

6-3/4" Hole



8-5/8" 24#, k-55 Casing set @ 130'  
Cmt with 112 cf (Circulated to Surface)

**Perforate @ 180'** **Plug #3: 180' - 0'**  
Class B cement, 65 sxs

**CR @ 539'** **Plug #2: 589' - 489'**  
Class B cement, 40 sxs:  
35 outside and 5 inside

**Perforate @ 589'**

TOC at 1900' (T.S.)

**Plug #1: 2512' - 2044'**  
Class B cement, 15 sxs (2-stages)

**Set CIBP @ 2512'**

Pictured Cliffs Perforations:  
2562' - 2600'

2-7/8" 6.4#, J-55 Casing set @ 2654'  
Cement with 195 cf

TD 2666'  
PBD 2655'

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: 20 Jicarilla 67

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 Nacimiento plug from 650' - 550' 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.