

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 29 2014

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

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, 990' FWL, Sec. 19, T:26N, 03W. (M)

5. Lease Serial No.

Jicarilla 98

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 98 1

9. API-Well-No.

30-039-06347

10. Field and Pool, or Exploratory Area

Gavilan 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

- ☐ 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 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 Jicarilla 98 #1 per the attached procedure.

This will be a closed loop operation. NMOCD will be notified 24 hrs prior to commencing operation.

OIL CONS. DIV DIST. 3

AUG 07 2014

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Notify NMOCD 24 hrs  
prior to beginning  
operations

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

Kyle Mason

Title District Engineer

Signature

Date 7/16/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy Salvors

Title

Petroleum Engineers

Date

8/5/2014

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

FFO

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 PV

## PLUG AND ABANDONMENT PROCEDURE

June 3, 2014

### Jicarilla 98 #1

#### Undesignated Pictured Cliffs

990' FSL, 990' FWL, Section 19, T26N, R3W, Rio Arriba County, NM

API 30-039-06347 / Long: \_\_\_\_\_ / Lat: \_\_\_\_\_

Note: All cement volumes use 10% excess per 1000 foot of depth or 100% excess outside pipe and 50' excess inside pipe, whichever is greater. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.8 ppg with a 1.18 cf/sx yield.

1. This project will use 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 3900'.  
Packer: Yes \_\_\_\_\_, No X, Unknown \_\_\_\_\_, Type \_\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **Plug #1 (Pictured Cliffs interval and Fruitland top, 3890' - 3790')**: Round trip 5.5" gauge ring to 3890', or as deep as possible. TIH and set 5.5" CR at 3890'. Pressure test tubing to 1000#. Attempt to pressure test casing to 800#. IF casing does not test, then spot or tag subsequent plugs as appropriate. Mix 17 sxs Class B cement and spot plug inside the casing above the CR to isolate the PC interval and cover the Fruitland top. TOH.  

**See COA**
5. **Plug #2 (Kirtland and Ojo Alamo tops, 3628' - 3343')**: Mix 38 sxs Class B cement and spot a balanced plug inside the casing to isolate the Kirtland and Ojo Alamo tops. PUH.
6. **Plug #3 (Nacimiento top, 2204' - 2104')**: Mix 17 sxs Class B cement and spot a balanced plug inside the casing to isolate the Nacimiento top. TOH.
7. **Plug #4 (10-3/4" Surface casing shoe, 321' - Surface)**: Perforate squeeze holes at 321'. Establish circulation out casing and bradenhead. Mix and pump 150 sxs Class B cement down 5.5" casing and circulate out annulus. SIH well and WOC.
8. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

# Jicarilla 98 #1

## Proposed P&A

Undesignated Pictured Cliffs

990' FSL & 990' FWL, Section 19, T-26-N, R-3W, Rio Arriba County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-039-06347

Today's Date: 6/3/14

Spud: 8/31/55

Completed: 9/21/55

Elevation: 6886' GI

12-1/4" hole (est)

10-3/4", 32.75# Casing set @ 271'

Cmt with 250 sxs (Circulated to Surface)

Perforate @ 321'

Plug #4: 321' - 0'

Class B cement, 150 sxs

TOC 720' (T.S.)

Nacimiento @ 2154' \*est

Plug #3: 2204' - 2104'

Class B cement, 17 sxs

Ojo Alamo @ 3393'

Kirtland @ 3578'

Plug #2: 3628' - 3343'

Class B cement, 38 sxs

Fruitland @ 3874'

7-7/8" hole (est)

Pictured Cliffs @ 3930'

Set CR @ 3890'

5-1/2", 14# Casing set @ 3890'  
Cement with 700 sxs

Pictured Cliffs Open Hole:  
3890' - 3930'

TD 3930'

See COA

Plug #1: 3890' - 3790'

Class B cement, 17 sxs

# Jicarilla 98 #1

**Current**

Undesignated Pictured Cliffs

990' FSL & 990' FWL, Section 19, T-26-N, R-3W, Rio Arriba County, NM

Lat: N \_\_\_\_\_ / Long: W \_\_\_\_\_ / API #30-039-06347

Today's Date: 6/3/14

Spud: 8/31/55

Completed: 9/21/55

Elevation: 6886' GI

12-1/4" hole (est)

10-3/4", 32.75# Casing set @ 271'  
Cmt with 250 sxs (Circulated to Surface)

TOC @ 720' (T.S.)

Nacimiento @ 2154' \*est

2-3/8" tubing at 3900'

Ojo Alamo @ 3393'

Kirtland @ 3578'

Fruitland @ 3874'

7-7/8" hole (est)

Pictured Cliffs @ 3930'

5-1/2", 14# Casing set @ 3890'  
Cement with 700 sxs

Pictured Cliffs Open Hole:  
3890' - 3930'

TD 3930'

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 98 #1

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.
3. The following modifications to your plugging program are to be made:
  - a) Bring the top of plug #1 to 3609 ft. to cover the Pictured Cliffs and Fruitland formation tops. Adjust cement volume accordingly. Note: Plugs 1 & 2 can be combined (3890-3343) ft.

Operator must run a CBL from 3890 ft., or as deep as possible, to verify cement top. Outside plugs will be required, based on CBL result. Submit electronic copy of the log for verification to the following BLM address: [tsalyers@blm.gov](mailto:tsalyers@blm.gov)

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.