

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-077082
2. Name of Operator ENERGEN RESOURCES CORPORATION	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 2198 Bloomfield Highway, Farmington, NM 87401	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2134' FNL, 1190' FEL, Sec. 19, T29N, R9W, N.M.P.M	8. Well Name and No. Lackey 4
	9. API Well No. 30-045-20727
	10. Field and Pool, or exploratory Area Aztec Pictured Cliffs
	11. County or Parish, State San Juan NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Energen Resources Corporation intends to plug and abandon this well per the attached plug and abandonment procedure.



2001 MAR 22 PM 1:25

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

Signed Don Graham Title Drilling & Completion Foreman Date 3/22/01

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date 3/22/01

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, 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.

\* See Instruction on Reverse Side

NMOCD

## PLUG & ABANDONMENT PROCEDURE

03/6/01

### **Lackey #4**

Aztec Pictured Cliffs

2134' FNL & 1190' FEL, Section 19, T-29-N, R-9-W

San Juan Co., New Mexico, API #30-045-20727

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 ASTM Type II, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. Install and test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and Energen safety rules and regulations. MOL and RU daylight pulling unit. Blow well down; kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP.
2. PU on tubing to release Baker Model "C" packer at 1895'. TOH with tubing and visually inspect. If necessary, LD tubing and PU workstring.
3. **Plug #1 (Pictured Cliffs perforations and Fruitland top, 1968' – 1630')**: Set 2-7/8" wireline CIBP at 1968'. TIH with tubing and tag CIBP. Load casing with water and circulate well clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 15 sxs cement (additional excess due to suspected casing leak) and spot a balanced plug inside casing above the CIBP to fill Pictured Cliffs perforations and to cover the Fruitland top. PUH to 1060'.
4. **Plug #2 (Kirtland and Ojo Alamo tops, 1060' – 855')**: Mix 15 sxs cement (additional excess due to suspected casing leak) and spot balanced plug inside casing to cover through Ojo Alamo top. TOH and LD tubing.
5. **Plug #3 (8-5/8" casing shoe, 289' - Surface)**: Perforate 2 squeeze holes at 289'. Establish circulation out bradenhead. Mix and pump 100 sxs cement down 2-7/8" casing, circulate good cement out bradenhead valve. SI and WOC.
6. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

# Lackey #4

Current

Aztec Pictured Cliffs

NE, Section 19, T-29-N, R-9-W, San Juan County, NM

API 30-045-20727

Long: / Lat:

Today's Date: 03/6/01

Spud: 12/19/70

Completion: 1/11/71

Elevation: 5628' GI

12-1/4" hole

8-5/8" 24# J-55 Casing set @ 239'  
Cmt w/ 175 sxs (Circulated to Surface)

## Well History

Jul '98: TIH with tubing, tag fill at 2051', COTD to 2096', Set packer at 1904' with 1-1/4" IJ tubing. Attempt to P/T casing, leak 1 bpm at 400#. RDMO.  
Jul '98: RU swab unit, unable to get below 100', hung up tools, jarred out. RDMO.

Aug '98: RU swab unit, unable to get 1.286" broach below 60', hung broach and pulled 3000# to POH.

Aug '98: RU Welltech. TOH tubing and found 49 bad joints. Broach tubing in hole to SN, reset packer and land tubing at 1896'.

Sep '98: RU swab unit, made 204 runs and recovered 155 bbls fluid.

Oct '98: RU swab unit, made 168 runs and recovered 95 bbls fluid.

Feb '99: RU swab unit, made 26 runs and recovered 23 bbls fluid

May '99: RU swab unit, made 44 runs and recovered 39 bbls fluid.

TOC @ 723' (Calc, 75%)

Ojo Alamo @ 905'

Kirtland @ 1010'

Fruitland @ 1680'

1-1/4" Tubing set at 1896'  
(59 joints, 2.33#, IJ)

Pictured Cliffs @ 2016'

Model C-1 Packer set at 1896'

Pictured Cliffs Perforations:  
2018' - 2060'

COTD 2096'

2-7/8" 6.5#, J-55 Casing set @ 2184'  
Cemented with 220 sxs (396 cf)

6-3/4" hole

TD 2184'

# Lackey #4

## Proposed P&A

Aztec Pictured Cliffs

NE, Section 19, T-29-N, R-9-W, San Juan County, NM

API 30-045-20727

Long: / Lat:

Today's Date: 03/6/01

Spud: 12/19/70

Completion: 1/11/71

Elevation: 5628' GI

12-1/4" hole

8-5/8" 24# J-55 Casing set @ 239'  
Cmt w/ 175 sxs (Circulated to Surface)

Perforate @ 289'

Plug #3 289' - Surface  
Cement with 100 sxs

TOC @ 723' (Calc, 75%)

Ojo Alamo @ 905'

Plug #2 1060' - 855'  
Cement with 15 sxs

Kirtland @ 1010'

Fruitland @ 1680'

Plug #1 1968' - 1630'  
Cement with 15 sxs

Set CIBP @ 1968'

Pictured Cliffs @ 2016'

Pictured Cliffs Perforations:  
2018' - 2060'

COTD 2096'

2-7/8" 6.5#, J-55 Casing set @ 2184'  
Cemented with 220 sxs (396 cf)

6-3/4" hole

TD 2184'

