

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**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.

RECEIVED

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (include area code)

(505) 325-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1700' FNL, 1775' FEL, Sec. 30, T26N, R6W, N.M.P.M.

5. Lease Serial No.

MMSF-079265

6. If Indian, Allottee or Tribe Name

51

7. If Unit or CA/Agreement, Name and/or No

NM

8. Well Name and No.

Klein 22

9. API Well No.

30-039-20654

10. Field and Pool, or Exploratory Area

Otero Chacra

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

- |   |  |  |   |
|---|--|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <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 intends to plug and abandon this well as per the attached plugging procedure.

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

Name (Printed/Typed)

Don Graham

Title

Production Superintendent

Date 8/14/03

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Original Signed: Stephen Mason

Title

Date AUG 21 2003

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.

NMOC

## PLUG & ABANDONMENT PROCEDURE

August 14, 2003

Klein #22

Otero Chacra  
1700' FNL & 1775' FEL, Section 30, T-26-N, R-6-W  
Rio Arriba Co., New Mexico, API #30-039-20654

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 is ASMT Type II mixed at 15.6 ppg with a yield of 1.18 cf/sx.

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. Prepare a 1-1/4" tubing workstring. Round-trip 2-7/8" gauge ring to 3470'.
3. **Plug #1 (Chacra perforations and top, 3470' - 3370')**: Set a 2-7/8" wireline CIBP at 3470'. TIH with 1-1/4" 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 10 sxs cement and spot a balanced plug inside casing above the CIBP up to 3370' to isolate the Chacra perforations. PUH to 2716'.
4. **Plug #2 (Pictured Cliffs and Fruitland tops, 2716' - 2380')**: Mix 15 sxs cement and spot balanced plug inside casing to cover the Pictured Cliffs and Fruitland tops. TOH with tubing.
5. **Plug #3 (Kirtland and Ojo Alamo tops, 2184' - 1888')**: Perforate 2 or 3 squeeze holes at 2184'. Establish rate into squeeze holes if casing tested. Mix and pump 158 sxs cement down the 2-7/8" casing, squeeze 147 sxs cement outside 2-7/8" casing and leave 11 sxs cement inside casing to cover the Kirtland and Ojo Alamo tops, displace to 1500'. If casing does not test, then set a 2-7/8" cement retainer at 2134' and cement. TOH with tubing.
6. **Plug #4 (Nacimiento tops, 1100' - 1000')**: Perforate 2 or 3 squeeze holes at 1100'. Establish rate into squeeze holes if casing tested. Mix and pump 55 sxs cement down the 2-7/8" casing, squeeze 50 sxs cement outside 2-7/8" casing and leave 5 sxs cement inside casing to cover the Nacimiento top, displace to 800'. If casing does not test, then set a 2-7/8" cement retainer at 1050' and cement. TOH and LD tubing.
7. **Plug #3 (8-5/8" casing shoe, 185' - Surface)**: Perforate 2 squeeze holes at 185'. Establish circulation out bradenhead with water. Mix and pump approximately 70 sxs cement down 2-7/8" casing to circulate good cement out bradenhead valve. Shut in and WOC.
8. 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.