

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Designation and Serial No.

NM02555

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

McCroden B 1

9. API Well No.

30-039-06146

10. Field and Pool, or exploratory Area

Tapacito Pictured Cliffs

11. County or Parish, State

Rio Arriba NM

SUBMIT IN TRIPLICATE

010 ALBUQUERQUE, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ENERGEN RESOURCES CORPORATION

3. Address and Telephone No.

2198 Bloomfield Highway, Farmington, NM 87401

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

1850' FSL, 1850' FWL, Sec. 4, T25N, R3W, N.M.P.M.

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ 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 proposes to plug and abandon this well per the attached procedure.

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

Signed [Signature]

Title Production Foreman

Date 3/23/99

(This space for Federal or State office use)

Approved by [Signature]

Title Lands and Mineral Resources

Date APR 28 1999

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

PLUG & ABANDONMENT PROCEDURE

3-23-99

McCroden B #1

Tapacito Pictured Cliffs
1850 FSL & 1850 FWL, Section 4, T-25-N, R-3-W
Rio Arriba Co., New Mexico

Note: All cement volumes use 100% excess outside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and/or test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and Energen safety rules and regulations.
2. MOL and RU daylight pulling unit. Blow well down; kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP. TOH and tally 2-3/8" tubing. Round-trip 5-1/2" gauge ring to 3730', or as deep as possible.
3. **Plug #1 (Pictured Cliffs perforations, Fruitland, Kirtland and Ojo Alamo tops, 3730' - 3280')**: Set 5-1/2" wireline CIBP at 3730'. TIH with open ended tubing and tag CIBP. Load casing with water and circulate clean. Pressure test casing to 500#. If casing does not test, spot or tag subsequent plug as appropriate. Mix 57 sxs Class B cement and spot a balanced plug inside casing above the CIBP to isolate the Pictured Cliffs interval and cover through the Ojo Alamo top. TOH with tubing.
4. **Plug #2 (Nacimiento top, 1725' - 1625')**: Perforate 3 HSC squeeze holes at 1725'. Establish rate into squeeze holes if casing tested. Set 5-1/2" cement retainer at 1725'. TIH with tubing and sting into retainer; establish rate into squeeze holes. Pressure test tubing to 1000#. Mix 47 sxs Class B cement, squeeze 30 sxs cement outside 5-1/2" casing and leave 17 sxs cement inside casing to cover Nacimiento top. TOH and LD tubing.
5. **Plug #3 (9-5/8" Surface casing at 193')**: Perforate 3 HSC squeeze holes at 243'. Establish rate out bradenhead valve. Mix and pump approximately 100 sxs Class B cement down 5-1/2" casing to circulate good cement out bradenhead valve. Shut well in 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.

TD 3860'

McCroden B #1
Proposed P&A
 Tapacito Pictured Cliffs
 SW Section 4, T-25-N, R-3-W, Rio Arriba County, NM

Today's Date: 3/23/99
 Spud: 6/15/57
 Completed: 7/2/57
 Elevation: 7240' (GL)

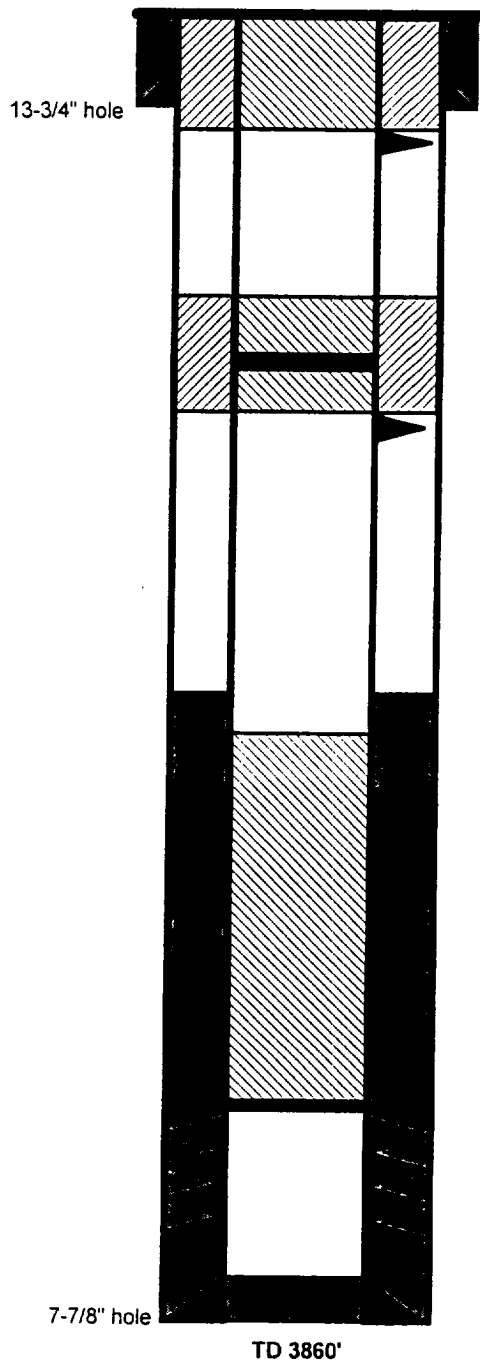
Nacimiento @ 1675'

Ojo Alamo @ 3330'

Kirtland @ 3500'

Fruitland @ 3562'

Pictured Cliffs @ 3772'



9-5/8" 32.3#, H-40 Csg set @ 193'
 cement with 160 sxs (Circulated to Surface)

Perforate @ 243'

Plug #3 243' - Surface
 Cmt with 100 sxs Class B

Cmt Retainer @ 1675'

Perforate @ 1725'

Plug #2 1725' - 1625'
 Cmt with 47 sxs Class B,
 30 sxs outside casing
 and 17 sxs inside.

TOC @ 3090' (Calc. 75%)

Plug #1 3730' - 3280'
 Cmt with 57 sxs Class B

Set CIBP at 3730'

Pictured Cliffs Perforations:
 3775' - 3816'

5-1/2" 15.5#, J-55 Csg set @ 3857'
 Cemented with 150 sxs (177 cf)

CONDITIONS OF APPROVAL FOR PERMANENT ABANDONMENT

Operator Energen Resources Well Name McCroden B #1

1. Plugging operations authorized are subject to the "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. For wells on Federal leases, Al Yepa with the Cuba Field Office is to be notified at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 289-3748. Office hours are 7:45 a.m. to 4:30 p.m.

For wells on Jicarilla leases notify Erwin Elote with the Jicarilla Apache Tribe at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 759-3242.

3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made :

Plug #1 - Drill logs from adjacent wells show top of the Ojo Alamo at about 3250' Plug #1 needs to be increased to cover from 3730' to 3200'.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Albuquerque Field Office

435 Montano Rd. N.E.

Albuquerque, New Mexico 87107- 4935

www.nm.blm.gov



IN REPLY REFER TO:

NMNM 02555

McCroden B #1

3362.3-4 (010)

APR 28 1999

Energen Resources Corporation

Attention: Mr. Don Graham

2198 Bloomfield Highway

Farmington, NM 87401

Dear Mr. Graham:

The following conditions of approval must be complied with (as applicable) before the McCroden B #1 located 1580' FSL & 1850' FWL, Section 4, T 25 N, R 3 W can be approved for final abandonment.

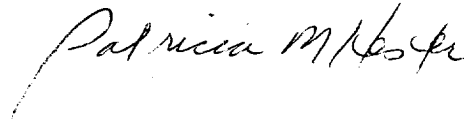
1. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
2. Any oily soil or fluids must be properly disposed of in an approved disposal area.
3. Pits must be filled in and the edges of the pads shaped to conform to the natural terrain.
4. Pads must be leveled, dressed up by a maintainer, ripped and disked.
5. Access roads must be leveled, waterbarred, disked and blocked off with earthen berms at the junction with the main road and at the entrance to the well pad. Waterbars should be spaced as shown below. Contact the surface owner for access road closure.

% Slope	Spacing Interval
Less than 2%	200'
2 to 5%	150'
6 to 9%	100'
10 to 15%	50'
Greater than 15%	30'

6. All disturbed areas will be seeded with the prescribed seed mix (Reseeding may be required) below. Contact the surface owner for the prescribed seed mix and road closure.

After one growing season, notify us by Sundry Notice of Final Abandonment. We should be provided with a letter from the fee owner stating that the surface restoration is satisfactory. We will need a letter from the surface owner accepting the surface restoration. If you have any questions, please contact me at (505) 761-8786.

Sincerely,

A handwritten signature in cursive script that reads "Patricia M. Hester". The signature is written in dark ink and is positioned above the printed name and title.

Patricia M. Hester
Surface Protection/Geologist