

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

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

NOV 21 2011

Farmington Field Office
Bureau of Land Management

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)

1470' FNL. 1230' FEL. sec 1, T. 25N, R. 8W

5. Lease Serial No.

NMSF-080375E

6. If Indian, Allottee or Tribe Name

cc

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

8. Well Name and No.

Sheets C 5

9. API Well No.

30-045-05561

10. Field and Pool, or Exploratory Area

Ballard Pictured Cliffs

11. County or Parish, State

San Juan 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

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☒ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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 Sheets C 5 according to the attached procedure.

Notify NMOCD 24 hrs
prior to beginning
operations

RCVD NOV 29 '11

OIL CONS. DIV.

DIST. 3

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

Adam Klem

Title District Engineer

Signature

Date 11/21/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason

Title

Date

NOV 22 2011

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 will entitle the applicant to conduct operations thereon.

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

PLUG AND ABANDONMENT PROCEDURE

November 18, 2011

Sheets C #5

Ballard Pictured Cliffs

1470' FNL, 1230' FEL, Section 1, T25N, R8W, San Juan County, New Mexico

API 30-045-05561 / 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 X, No _____, Unknown _____, Size 1", Length 2297'.
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 5.5" gauge ring or casing scraper to 2217' or as deep as possible.

NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface or where a T.S. or CBL log was not previously run. This procedure is prepared with the understanding that it may be modified based on the TOC from the CBL.

4. **Plug #1 (Pictured Cliffs interval and Fruitland top, 2217' – ¹⁸⁵⁶1879')**: TIH and set 5.5" CR at 2217'. Pressure test tubing to 1000#. 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 ~~44~~ sxs Class B cement and spot a balanced plug inside the casing above the CR to isolate the Pictured Cliffs interval and cover the Fruitland top. TOH with tubing.
5. **Plug #2 (Kirtland and Ojo Alamo tops, ¹⁷¹¹1634' – ¹⁵⁸⁸1324')**: Perforate 3 squeeze holes at ¹⁷¹¹1634'. Set 5.5" cement retainer at ¹⁵⁸⁸1584'. Mix ~~133~~ sxs Class G cement squeeze ⁹²92 sxs outside casing and leave ~~41~~ sxs inside casing to cover through the Ojo Alamo top. TOH and LD tubing.
6. **Plug #3 (8-5/8" surface casing shoe, 151' - Surface)**: Perforate 3 squeeze holes at 151'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 55 sxs Class B cement and pump down the 5.5" 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.

Sheets C #5

Current

Ballard Pictured Cliffs

1470' FNL & 1230' FEL, Section 1, T-25-N, R-8-W, San Juan County, NM

Lat: N _____ / Long: W _____ / API #30-045-05561

Today's Date: 11/18/11

Spud: 2/18/56

Completed: 3/14/56

Elevation: 6493' GI

13-3/4" hole

8-5/8" 24#, J-55 Casing set @ 101'
Cmt with 125 sxs (Circulated to Surface)

1" tubing at 2297'

Ojo Alamo @ 1374' *est

Kirtland @ 1584' *est

TOC at 1706' (Calc, 75%)

Fruitland @ 1929' *est

Pictured Cliffs @ 2216'

7-7/8" hole

5-1/2" 14#, J-55 Casing set @ 2217'
Cement with 100 sxs (118 cf)

Pictured Cliffs Open Hole Interval:
2217' to 2309'

TD 2309'

Sheets C #5

Proposed P&A

Ballard Pictured Cliffs

1470' FNL & 1230' FEL, Section 1, T-25-N, R-8-W, San Juan County, NM

Lat: N _____ / Long: W _____ / API #30-045-05561

Today's Date: 11/18/11

Spud: 2/18/56

Completed: 3/14/56

Elevation: 6493' GI

13-3/4" hole

8-5/8" 24#, J-55 Casing set @ 101'
Cmt with 125 sxs (Circulated to Surface)

Perforate @ 151'

Plug #3: 151' - Surface
Class B cement, 55 sxs

Ojo Alamo @ 1374' *est

Plug #2: 1634' - 1324'
Class B cement, 133 sxs:
41 inside and 92 outside

Kirtland @ 1584' *est

Cmt Retainer @ 1584'

Perforate @ 1634'

TOC at 1706' (Calc, 75%)

Fruitland @ 1929' *est

Plug #1: 2217' - 1879'
Class B cement, 44 sxs

Pictured Cliffs @ 2216'

7-7/8" hole

Cmt Retainer @ 2217'

5-1/2" 14#, J-55 Casing set @ 2217'
Cement with 100 sxs (118 cf)

Pictured Cliffs Open Hole Interval:
2217' to 2309'

TD 2309'

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 5 Sheets C

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) 599-8907.

3. The following modifications to your plugging program are to be made:

a) Bring the top of the Pictured Cliffs/Fruitland plug to 1856'.

b) Place the Kirtland/Ojo Alamo plug from 1711' – 1388' inside and outside the 5 ½" casing where cement is not present behind the 5 ½" 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.