

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

JUL 06 2010

**Bureau of Land Management
Farmington Field Office**

5. Lease Serial No.

I-149 IND-9111

6. If Indian, Allottee or Tribe Name

Navajo

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

8. Well Name and No.

Texas Navajo 1

9. API Well No.

30-045-05568

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

- | | | | |
|---|--|--|---|
| <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 & Abandon the Texas Navajo #1 as follows on the attached procedure:

**RCVD JUL 13 '10
OIL CONS. DIV.
DIST. 3**

**Notify NMOCD 24 hrs
prior to beginning
operations**

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

Andrew Soto

Title **District Engineer**

Signature

Date **7/2/2010**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JUL 12 2010

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.



**TEXAS NAVAJO LEASE
WELL #1**

**API #: 30-045-05568 / AFE #: SJ10-180 / DP: 50910A
Ballard Pictured Cliffs Field
San Juan County, New Mexico**

**PLUG & ABANDON PROCEDURE
May 6th, 2010**

A. OBJECTIVE:

1. Plug & Abandon this well in compliance with NMOCD & BLM regulations.
2. Install P&A marker with cement, cut off anchors & restore location.

B. WELL DATA:

DEPTHS: TD: 2,232' PBTd: 2,210'

ELEVATIONS: GL: 6,413' KB: 6,423' (10' KBM)

PERFORATIONS: (5/30/00) 2,010' - 2,030', 2,044' - 2,050' & 2,066' - 2,070' w/ 1 JSPF.
Shot a total of 33 holes in the 33 intervals over the 61' of gross interval.

STIMULATION: (11/12/56) OH Completion
(6/1/00) 70Q Foam-sand frac w/ 37,000 gal. of foam carrying 44,400# of
12/20 sand @ 40 BPM.

SURFACE CASING: 8 5/8" J-55 24.00# ST&C casing set @ 95'
Cemented in a single stage w/ 70 sacks, the cement was circulated.

PRODUCTION CASING: 5 1/2" J-55 15.50# LT&C casing set @ 2,016'.
Cemented in a single stage w/ 100 sacks, the TOC is calculated @ 75% to
be 1,505'.

PRODUCTION LINER: (5/1/00) 3 1/2" J-55 9.30# LT&C casing set @ 2,232'.
Cemented in a single stage w/ 150 sacks, the cement was circulated.

PRODUCTION TUBING: 66 joints of 1 1/2" 2.76# J-55 10rd tubing set @ 2,083'
The 1.375" profile nipple is @ 2,051'.

C. PROCEDURE:

KEEP A TIW VALVE OPEN & ON THE RIG FLOOR @ ALL TIMES.
ALL CEMENT VOLUMES ARE TO BE 100% EXCESS OUTSIDE PIPE AND 50' EXCESS INSIDE.

1. Test location rig anchors. Record casing, tubing and bradenhead pressures.
2. MI & set 1-400 barrel lined frac tanks filled w/ enough FW to satisfy all of the anticipated fluid requirements for this P&A & 1-400 barrel test tank to flow back any fluids & circulated cement during this **CLOSED LOOP OPERATION**.
3. MIRUPU. NU relief line and blow down well. ND wellhead and NU a BOP w/ 1 1/2" & CSO rams. Function test BOP.
4. POOH w/ 66 joints of 1 1/2 " 2.76# J-55 production tubing set @ 2,083'.
5. RUWL & round trip a 3 1/2" gauge ring to 2,102'. POOH & RDWL.
6. PU & RIH w/ a 3 1/2" CIBP & set @ 1,960'. POOH w/ WL. Pressure test casing to 800# for 5 minutes.
Note: If the casing does not test, then spot & tag subsequent plugs as appropriate.
7. TIH w/ 1 1/2" J-55 tubing w/ a collared end, a SN & the 1 1/2" J-55 tubing down to the top of the CIBP.
8. Mix, pump & spot 13 sxs of Class B, 15.6 ppg w/ 1.18 cf/sx yield, cement as a balance plug above the CIBP to isolate the Pictured Cliffs interval and cover the Fruitland top. POOH w/ the tubing & SION to WOC.
9. RUWL & RIH w/ perf guns to tag the TOC of plug #1 & perforate 3 squeeze holes at 1,432'. POOH & RDWL.
Note: If the casing tested, then attempt to establish rate into the squeeze holes.
10. PU & TIH w/ a 3 1/2" cement retainer, an on/off stinger, a XO, a 1 1/2" SN on the 1 1/2" tubing down to 1,427'. Set the cement retainer and establish rate into squeeze holes.
11. Mix & pump 147 sxs of Class B, 15.6 ppg w/ 1.18 cf/sx yield cement. Squeeze 127 sxs of cement outside the 5 1/2" casing while leaving 20 sxs of cement inside the 3 1/2" casing to cover the Kirtland & Ojo Alamo interval. POOH/LD the 1 1/2" tubing. ND the BOP. SION & WOC.
12. RUWL & RIH w/ perf guns to tag the TOC of plug #2 & then perforate 3 HSC squeeze holes at ~~145'~~ 154'. POOH & RDWL.
13. Establish circulation to surface out the 5 1/2" casing & bradenhead valve until returns are clean.

C. PROCEDURE CONTINUED:

14. Mix & pump approximately 40 sxs of Class B, 15.6 ppg w/ 1.18 cf/sx yield cement down the 3 1/2" casing to circulate good cement out 5 1/2" annulus & bradenhead. Shut in the well & WOC.
15. ND the cementers, cut off wellhead below surface casing flange & install P&A marker with cement to comply with regulations. RDMOPU. Cut off anchors & restore location per BLM stipulations.

C. ATTACHMENTS:

1. Texas Navajo #1 Pertinent Well Data Sheet
2. Texas Navajo #1 Production Graphs
3. Texas Navajo #1 Wellbore Diagrams
4. Texas Navajo #1 P&A AFE

**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: 1 Texas Navajo

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) Place the Pictured Cliffs/Fruitland plug from 1960' – 1677'.
 - b) Place the Kirtland/Ojo Alamo plug from 1432' – 1122' inside the 3 ½" and outside the 5 ½" casing.
 - c) Place the Surface plug from 154' to surface.

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.