

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau 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.

SUBMIT IN TRIPLICATE

1. TYPE OF WELL

OIL GAS
☒ WELL ☐ WELL ☐ OTHER

2. NAME OF OPERATOR

QUESTAR EXPLORATION AND PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

1331 SEVENTEENTH STREET, SUITE 800, DENVER, CO 80202 303-672-6900

4. LOCATION OF WELL (FOOTAGE, SEC., T., R., M., OR SURVEY DESCRIPTION)

2310' FSL 790' FEL Sec 31 T23N R7W NMPM

5. Lease Serial No.

NMNM-6681

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Federal C #2

9. API Well No.

30-043-20081

10. Field and Pool, or Exploratory Area

Alamito Gallup

11. County, Parish, State

Sandoval, NM

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

☐ 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 site is ready for final inspection.)

Plug and abandon per attached procedure.

2001 APR -5 PM 2:37

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

Title Sr. Petroleum Engineer

Signature

Gary Chalmers

Date

04-Apr-01

(This space for Federal or State office use)

Approved by

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.

Title

Date

5/18/01

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S. C. Section 1212, make 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 & Abandonment Procedure

Federal C-2

API – 30-043-20081

Alamito Gallup

2310' FSL 790' FEL Sec 31 T23N R7W NMPM

Sandoval County, New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOC, BLM and Questar safety regulations. MI and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well, kill with water as necessary.
2. ND wellhead and NU BOP, test.
3. Cut off tubing just above tubing anchor allowing anchor to fall to bottom.
4. TOH and tally 2 3/8" tubing and visually inspect.
5. Run 3.625" gauge ring to determine max depth obtainable with CIBP.
6. **Plug #1 (Gallup perforations (4800-04,4911-18,4932-36,4951-53,4990-95,5044-48,5055-57,5074-77) and top – 4797')**: TIH with tubing and 4 1/2" CIBP. Set CIBP at ± 4300' or at max obtainable depth. Load casing with water. Pressure test casing to 500 psi. If casing does not test, spot or tag subsequent plug as appropriate. Spot cement plug inside casing above the CIBP with enough cement to bring the top of the Gallup plug to 4250'. TOH with tubing.
7. **Plug #2 (Mesaverde top, 2840')**: Perforate 3 squeeze holes at 2890'. TIH with w/ 2 3/8" work string to ±2750'. Establish rate into squeeze holes and place the Mesaverde plug from 2890' – 2790' inside and outside the 4 1/2" casing. TOH with tubing.
8. **Plug #3 (Pictured Cliffs and Fruitland tops, 1297' – 1046')**: Perforate 3 squeeze holes at 1347'. TIH with w/ 2 3/8" work string to ±996'. Establish rate into squeeze holes and place the Pictured Cliffs/Fruitland plug from 1347' – 996' inside and outside the 4 1/2" casing. TOH with tubing.
9. **Plug #4 (Kirtland and Ojo Alamo tops, 902' – 745')**: Perforate 3 squeeze holes at 952'. TIH with w/ 2 3/8" work string to ±690'. Establish rate into squeeze holes and place Kirtland/Ojo Alamo plug from 952' – 695' inside and outside the 4 1/2" casing. TOH with tubing.
10. **Plug #5 (Nacimiento top, surface; 8 5/8" casing shoe at 126')**: Perforate 3 squeeze holes at 250'. Establish circulation out bradenhead valve. Mix and pump cement down the 4 1/2" casing from 250' to surface. Circulate good cement out bradenhead valve. Shut-in well and WOC.
11. ND BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RDMOSU, cut off anchors and restore location.

Federal C-2

2310' FSL 790' FEL Sec 31 T23N R7W NMPM
Sandoval County, New Mexico

GR: 6891'

Spud date: November 28, 1971
Schematic - not drawn to scale

Surface Casing:

8-5/8" 24# @ 126',
cmt w/ 65 sx Class A Cement

Production Casing

4-1/2" 10.5# @ 5214',
cmt w/ 150 sx Class C w/ 2% gel cement. TOC @4607'

Geologic Markers:

Ojo Alamo	745'
Kirtland	902'
Fruitland Coal	1046'
Pictured Cliffs	1297'
Mesaverde	2880'
Gallup	4797'
PBTD	5150'
TD	5214'

Unable to get tubing anchor
above 4330'

Land 2-3/8" tbg. @ 4927'

Perforation Record

Depth	SPF
4800-04	1
4911-18	1
4932-36	1
4951-53	1
4990-95	1
5045-49	1
5056-58	1
5075-78	1
5154-58	1
4799-4804	1
4914	1
4916	1
4990	1
4992	1

