

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED

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

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

5. Lease Designation and Serial No.  
SF-078416-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Hardie LS #2

9. API Well No.  
3004507761

10. Field and Pool, or Exploratory Area  
Blanco Mesaverde

11. County or Parish, State  
San Juan New Mexico

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Amoco Production Company

Attention:  
Pat Archuleta, Room 1205C

3. Address and Telephone No.  
P.O. Box 800, Denver, Colorado 80201 (303) 830-5217

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
990' FSL 990' FWL Sec. 25 T 29N. R 8W Unit M

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

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                               |                                                  |
|-------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Abandonment                         | <input type="checkbox"/> Change of Plans         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion                        | <input type="checkbox"/> New Construction        |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Plugging Back                       | <input type="checkbox"/> Non-Routine Fracturing  |
|                                                       | <input type="checkbox"/> Casing Repair                       | <input type="checkbox"/> Water Shut-Off          |
|                                                       | <input type="checkbox"/> Altering Casing                     | <input type="checkbox"/> Conversion to Injection |
|                                                       | <input checked="" type="checkbox"/> Other Perforation & Frac | <input type="checkbox"/> 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.)\*

MIRUSU 7/12/96.

Set slick line plug at 5210', tag at 5279'. Cap composite bridge plug with 10' of cement from 5040' to 5050' to add strength for differential pressure limitations of plastic composite plug. Perforated at: 4960', 4958', 4955', 4940', 4936', 4898', 4896', 4894', 4892', 4886', 4848', 4844', 4842', with 1 jsp, .360 inch diameter, total 13 shots fired. Set RPB at 4570'. Pressure tested casing to 2000 psi, held okay. Pressure tested plug and tubing to 750# for 30min., held okay. Acidized from 4842'-4960' with 12 bbls 7.50% FE HCL acid. Initial break down of 2280#. Pumped balls at 3070# at 4.3bpm w/good ball action, max pressure 4000 psi, max rate 6.0 bpm. Ball action from 2280# to 3800# before ball off. Set frac liner, top at 4561' and bottom at 4753'. Frac'd from 4842'-4960' w/370 bbls water and 689,155 scf of N2 to create a 70% quality foam, along w/49,018# of 16/30 Arizona sand. Tested from 4842'-4960' for 12 hrs on 32/64" choke, recovered 440 mcf, trace of oil and no water. FCP 55#. Removed frac liner, tag sand at 4953'. Circulate out sand to cement at 5040' and drilled out cement and composite plug at 5050', circulate clean to 5302'. Pull slickline plug. Tested from 4588'-5290' for 2 hrs on 32/64" choke, recovered 60 mcf, trace of oil, no water. FCP 165#. Landed tubing at 5250'.

RDMOSU 7/25/96.

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

Signed Pat Archuleta Title \_\_\_\_\_ Clerk \_\_\_\_\_ Date 09-23-1996

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date OCT 01 1996

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 statements or representations as to any matter within its jurisdiction.

FARMINGTON DISTRICT OFFICE