

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.     |
| JICARILLA CONTRACT 148                  |
| 6. If Indian, Allottee or Tribe Name    |
| JICARILLA APACHE                        |
| 7. If Unit or CA, Agreement Designation |
|   |
| 8. Well Name and No.                    |
| JICARILLA CONT 148 #18                  |
| 9. API Well No.                         |
| 3003922000                              |
| 10. Field and Pool, or Exploratory Area |
| BLANCO MESAVERDE                        |
| 11. County or Parish, State             |
| RIO ARRIBA NM                           |

|  |   |                                     |
|--|---|-------------------------------------|
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | 2. Name of Operator<br>AMOCO PRODUCTION COMAPNY | Attention:<br>WAYNE BRANAM, RM 1220 |
| 3. Address and Telephone No.<br>P.O. Box 800, Denver, Colorado 80201   | (303) 830-4912                                  |                                     |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>1850FNL 1590FWL Sec. 23 T 25N R 5W UNIT F              |   |                                     |

| 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  |   |
|---|---|
| TYPE OF SUBMISSION  | TYPE OF ACTION  |
| <input checked="" type="checkbox"/> Notice of Intent<br><input type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Abandonment<br><input checked="" type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Conversion to Injection<br><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.)\*

PER OUR TELEPHONE CONVERSATION OF 94 11 01, ATTACHED IS THE REVISED RECOMPLETION PROCEDRES FOR THE SUBJECT WELL.

AMOCO APPRECIATES YOUR HELP WITH THIS MATTER.

RECEIVED  
NOV - 9 1994  
OIL CON. DIV.  
DIST. 3

|   |                                    |                        |  |
|---|------------------------------------|------------------------|--|
| 14. I hereby certify that the foregoing is true and correct       |                                    |                        |  |
| Signed <u>Wayne Branam</u>  | Title <u>BUSINESS ANALYST</u>      | Date <u>11-11-1994</u> |  |
| (This space for Federal or State office use)                      |                                    |                        |  |
| (ORIG. SGD.) ROBERT A. KENT                                       | Chief, Lands and Mineral Resources | NOV 8 1994             |  |
| Approved by _____   | Title _____                        | Date _____             |  |
| Conditions of approval, if any: <u>ORIGINAL COA'S STILL APPLY</u> |                                    |                        |  |

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.

**JICARILLA CONTRACT 148 - 18**  
**SEC 23 - T25N - R5W, RIO ARRIBA COUNTY, NM**  
**CLIFF HOUSE RECOMPLETION PROCEDURE**

1. Shut-in the well for 72 hr. Obtain shut-in surface pressures from the tbg (Gallup side), and also the csg/tbg annulus (Chacra side). Collect gas samples from both completions and submit for analysis.
2. Drop a wireline with swab cups down the 2-3/8" tbg on the Gallup completion side. Identify the depth of the top of liquid. Swab and collect a representative sample of the liquid. Have HES do a complete analysis of the liquid sample. The results will be used in the commingling application.
3. Work the well as hot as possible to keep from damaging the existing Gallup and Chacra completions. These two formations will be returned to production when the Cliff House recompletion is finished. Use 3% KCL if kill fluid is needed.
4. Unseat and trip out of hole with the 2-3/8" tbg and the Baker 5-1/2" model A-L2 Loc-Set retrievable packer set @ 6361'.
5. Trip in hole with a bit and scraper to the PBTD of approximately 7300'. Circulate the wellbore clean with N2.
6. Wireline set a RBP @ 6300'. Cap with 5 sack of sand.
7. If there is not a CBL log in the Farmington office run a CBL\CCL\GR log from 6200' to surface. Identify top of cement and insure the Cliff House interval is isolated behind pipe. A cement remediation procedure will follow if necessary.
8. TIH with 2-3/8" tbg and a treating packer. Set the packer @ 3930' and pressure test the csg from 6300' - 3930' to 3000 psi. If the csg pressure tests positively then pick-up the packer and re-set it @ 3850'. Pressure the backside and test the csg from 3850' to surface to 3000 psi.
9. Perforate Cliff House pay @ 4660' - 4670', and 4680' - 4694'. Correlate to dresser Atlas's Compensated Densilog Compensated Neutron log dated 4/29/79. Perforate with 4 JSPF, 120 degree phasing, minimum 12.5 gram charges.
10. Set a frac liner over the Chacra perforations @ 3885' - 3902'.
11. Fracture stimulate Cliff House perforations according to attached frac schedule A. Fracture stimulate down the 5-1/2" csg. Shut the well in over night.
12. Flow the Cliff House completion back up csg. Flow until the well cleans up.

13. TIIH with 1" tbg and tag for sand over the Cliff House perforations. The tbg has to pass through the frac liner covering the Chacra perforations. If necessary, clean out any sand that covers the Cliff House perforations with N2. Hang the tbg intake @ 4660'. Flow test the Cliff House completion for 5 days. Obtain flow rates and pressures and notify engineering. Collect gas and water samples on the last day and submit for analysis.
14. Shut-in the Cliff House completion and obtain a 48 hr surface tbg pressure. Identify the top of liquid with a wireline and swab cups. Collect a representative sample of the liquid and have a complete analysis done by HES.
15. TOOH with the 1" tbg and remove the frac liner and the RBP.
16. TIIH with mule shoe, SN, and 2-1/16" tbg. Land the intake @ 6750'.
17. Swab the well in with all 3 formations open. Blow well clean for 3 or 4 days if necessary. RTP.
18. Amoco will want to temporarily downhole commingle, produce and sell gas from all 3 formations through common surface facilities for 60 - 90 days while obtaining a stabilized producing rate from the Cliff House completion. Long-term downhole commingling approval will be requested after a stabilized producing rate is established from the Cliff House formation.

Steve Smethie 10/20/94  
Steve Smethie, Engineer

R U Montoya 10-25-94  
Ralph Montoya, Field Foreman

Mike Roland 10/25/94  
Mike Roland, Operations Specialists