

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Designation and Serial No. SF-078096
2. Name of Operator AMOCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 800, Denver, Colorado 80201		7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1450 FSL 1190FWL Sec. 21 T 31N R 11W		8. Well Name and No. MUDGE-LS #26
		9. API Well No. 3004510481
		10. Field and Pool, or Exploratory Area BASIN DAKOTA
		11. County or Parish, State SAN JUAN NEW MEXICO

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	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other RECOMPLETION
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<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.)*

PLEASE SEE ATTACHED PROCEDURES.

RECEIVED
JUL 1 1 1994
OIL CON. DIV.
DIST. 3

07-01-1994
JUL 06 1994
DISTRICT MANAGER

IF YOU HAVE ANY QUESTIONS CONTACT PAUL EDWARDS AT (303) 830-5572.

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

Signed

Walter Kalahar

Title

Business Assistant

APPROVED 07-01-1994

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

JUL 06 1994
DISTRICT MANAGER

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning

the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4 - If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones,

or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2)
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

**RECOMPLETION/REPAIR PROCEDURE
MUDGE B 26 DK,MV**

June 17, 1994 (1st Version)

1. Record TP, SICP, SIICP and SIBHP.
2. MIRUSU.
3. TOH with tubing, lay down bull plug and perforated sub.
4. Clean out with N2 to PBTD (7200').
5. TIH with a RBP and set at 6850'.
6. Pressure test casing to 3500 psi., run a CBL from 6850' to 2700' and determine TOC's for the 4 1/2" casing. Relay CBL info to Paul Edwards in Denver so he can pick MV perfs, and verify whether squeeze work will be necessary prior to any fracture treatment.
7. RU lubricator and TIH with 3 1/8" casing guns and perforate the following Dakota intervals with 2 JSPF, 120 deg. phasing and 13 g charges. Perfs are correlated from Welex's Correlation Log dated 61/07/18.

PERFORATE

7088' - 91' 7096' - 7100' 7104' - 06'
7127' - 44' 7152' - 68'

8. Fracture stimulate according to the attached frac schedule for the Dakota.
9. After 8 hours, begin flowing back load.
10. Flow back load until well is dry, capable of producing against 350 psi, and sand entry has ceased.
11. Set RBP at 5050'.
12. RU lubricator and TIH with 3 1/8" casing guns and perforate the MV Point Lookout intervals with 2 JSPF, 120 deg. phasing and 13 g charges. Perfs will be correlated from the CBL run just the other day.

PERFORATE

13. Fracture stimulate according to the attached frac schedule for the Point Lookout. Tail in with resin coated sand. Shut in overnight.
14. Flow back the Point Lookout until sand entry ceases.
15. Set a RBP at 3400'.
16. Perforate 2 squeeze holes within 100' above the TOC (estimated to be at 3225').
17. Establish circulation to surface and cement squeeze with enough cement to create a new cement top above the 7 5/8" casing shoe but not above 2500'.
18. Pressure test squeeze perfs to 500 psi.
19. TOH with RBPs at 3400' and 5050'.
20. Clean out with N2 to PBTD (7200').
21. TIH with 2 3/8" tubing and a permanent packer. Set packer at 5200' and land tubing at 7050' with a seating nipple one joint off of bottom.
22. TIH with 1 1/4" coiled tubing inside the 2 3/8" and land at 6970'.
23. Tie the DK string back into surface equipment and turn over to production.

Note : Since this procedure involves repair, recomplete, and DRA expenditures, be sure to label all invoices according to one of those 3 items.