

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. <b>SF-078513</b>
2. Name of Operator <b>Amoco Production Company</b> Attention: <b>Ed Hadlock</b>		6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. <b>P.O. Box 800 Denver, Colorado 80201 (303) 830-4982</b>		7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1180' FNL, 1100' FEL Sec. 20, T32N, R09W UNIT "A" NE/NE</b>		8. Well Name and No. <b>Arnaud "A" #4</b>
		9. API Well No. <b>30-045-28682</b>
		10. Field and Pool, or Exploratory Area <b>Undes. Pictured cliffs</b>
		11. County or Parish, State <b>San Juan N.M.</b>

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 checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <b>Remedial Cement work perf/frac</b> <input type="checkbox"/> Change of Plane <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.)

11/13/92-12/01/92

Tag CMT @ 3581'. Drill 31' CMT & set DV tool @ 3612'. Drill through DV tool to 3900'. Circ. hole clean. Ran CBL, CMT top @ 3500'. Pressure test CSG to 4280 PSI for 20 min. Ok. TIH w/ perf gun loaded w/ 2 shots. perf @ 3490'. PMP 60 BBLS H2O to fill hole. PMP 200 sx standard CMT, 2.5 BPM @ 2100 PSI. Mixed 43 BBLS slurry. Insert top plug & displace to 3250'. No returns up bradenhead. Tag CMT @ 3121, drill out to 3510'. Circ. hole clean. Pressure test CSG to 4000 PSI, dropped to 3000 in 4 min., released pressure. Pressured up to 2500, dropped to 2000 in 5 min. Ran CBL @ 1000 PSI. Logged 3500 to 3070'. CMT top @ 3460. Ran 2nd CBL from 3650' to 3250'. (3250'-3450') no CMT, (3450'-3550') good bond, (3550'-3614') 70-80% bond. (3614'-3650') 100% bond. Set PKR @ 3505'. Pressure up below PKR to 3000 PSI for 15 min., held ok. Tested backside to 3000 psi, held for 15 min. TOH w/ PKR.

12/02/92-12/04/92

**Perf Pictured Cliffs:**

Perf 3655'-3724' W/4 JSPF, .31 INCH DIAMETER, 276 SHOTS, OPEN

Perf 3760'-3770' W/4 JSPF, .31 INCH DIAMETER, 40 SHOTS, OPEN

**Frac Pictured Cliffs:**

Pad w/ 40,000 gal frac fluid. Pump 242,000# 16/30 sand w/ 60,000 gal frac fluid (over)

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

Signed

*Ed Hadlock*

Title

*Admin. Analyst*

Date

*Jan 7, 1992*

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved by

Title

Date

Conditions of approval, if any:

JAN 12 1992

in 6 stages. Flush w/ 2,184 gal foam. Breakdown pressure 2094 psi, AIP 1570 PSI, AIR 40 BPM.

12/11/92-12/16/92

Set RBP @ 3575'. Pressure test casing and plug to 1000 PSI, held ok. Dump sand on plug. Run in hole w/ perf gun loaded w/ 4 shots & perf squeeze holes @ 3200'. PMP 140 bbls 2% KCL to circulate. Pump 109 BBLs lead Cmt & 25 BBLs tail. Lost circ. disp. @ 2900'. W/O CMT 4 hours. Drill CMT from 2962'-3220'. Circ. hole clean. Pressure test CSG to 500 PSI for 10 min., ok. Ran CBL from 3000'-1000', CMT top @ 1150'. Ran 2nd CBL 1150'-50', no CMT. Perf 2 holes @370. Circ. 7 BBLs 2% KCL. PMP 10 BBLs water ahead of CMT. PMP 215 sx oilwell CMT, 30 BBLs returns up Bradenhead, disp. Cmt to 170'. Tag CMT @ 156', drill out to 385'. Pressure test CSG to 500 PSI for 15 min, held ok. Circ. hole clean & TOH w/ plug. Clean out to 3900'.

If there are any questions, please contact Ed Hadlock @ (303) 830-4982.