Form 3160-5
(June 1990)

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-078039

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

8. Well Name and No.
Barnes LS #9A

2. Name of Operator
Amoco Production Company

Attention:
Julie L. Acevedo

9. API Well No.
3004522756

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201

(303) 830-6003

10. Field and Pool, or Exploratory Area
Blanco Mesaverde

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1500FSL 1750FEL Sec. 13 T 32N R 11W

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	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to injection
	☒ Other B H Repair Reperf & Acidize MV	☐ 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.)*

Amoco Production Company intends to perform the attached workover procedure required to eliminate bradenhead pressure.

In addition, Amoco also requests approval to construct a temporary 15'X15'X5' blow pit for return fluids. This pit will be reclaimed if utilized, upon completion of this procedure.

RECEIVED
AUG 30 1993
OIL CON. DIV.
DIST. 3

93 AUG 25 AM 10:04
070 FARMINGTON, NM

RECEIVED
BLM

14. I hereby certify that the foregoing is true and correct
Signed Julie L. Acevedo Title Sr. Staff Assistant Date 08-23-1993

(This space for Federal or State office use)

APPROVED
AUG 26 1993
DISTRICT MANAGER

Approved by Title Date
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, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

WORKOVER PROCEDURE
BARNES B 9A

August 20, 1993 (1st version)

1. Record TP, SICP, and SIBHP.
2. MIRUSU.
3. TOH with tubing.
4. TIH with RBP and set at 4450'.
5. Run a GR/CBL from 4450' to surface and determine top of cement for 7" casing and 4 1/2" liner. Verify that the PC, FT, and Ojo Alamo are isolated.
6. Pressure test casing and liner top to 500 psig. Locate leaks if necessary.
   a) If leaks exist inside 4 1/2" liner, conduct cement squeeze(s) until hole(s) will test to 500 psig.
   b) If leaks exist inside 7" casing, contact Paul Edwards in the Denver office before proceeding.
7. TIH with RBP and set within 100' of the TOC in the 7" casing, cap with sand.
8. Perf 2 squeeze holes within 100' of the TOC.
9. Establish circulation to surface, calculate annular volume with a dye, and pump 200% of annular volume of cement. Note returns to surface.
10. WOC.
11. Drill out cement to RBP.
12. Pressure test squeeze perfs to 500 psig.
13. Resqueeze until pressure test holds, and cement is to surface.
14. TOH with upper RBP.
15. Swab fluid level down to 3500' from surface.
16. TOH with lower RBP.
17. If several holes were shot in the 7" casing, contact office for the possibility of running 4 1/2" or 5 1/2" casing to the liner top, or even backing off of the 4 1/2" liner hanger and then tying 4 1/2" casing back to the surface.
18. Using lubricator, TIH with 3 1/8" casing gun and perforate the following intervals with 2 JSPF and 120 degree phasing. Depths are correlated from Welex's Compensated Density Log dated 78/03/02.

MV Point Lookout Perforations

5208' - 28' 5233' - 40'

MV Cliffhouse & Menefee Perforations

4588' - 90'	4775' - 86'	4792' - 96'	4806' - 12'
4816' - 30'	4837' - 44'	4918' - 22'	4949' - 52'
4968' - 72'	4979' - 82'	5000' - 05'	5044' - 46'
5059' - 62'	5066' - 69'	5084' - 88'	5094' - 96'
5123' - 27'			

19. TIH with RBP, packer and tubing. Set RBP at 5248' and packer at 5150'.

Note: If there is a faster way to go from the acid treatment to the swabbing without using the packer and RBP then let's consider it.

20. Pump the following acid job at no greater than 2 bbl/min:

Preflush : 1350 gal 15% HCl
Treatment : 1350 gal 35% ASOL, 65% (3% HF / 12% HCl) solution
Afterflush : 1350 gal 0.2% clay fix II / water
Displacement : 900 gal 0.2% clay fix II / water

WORKOVER PROCEDURE
BARNES B 9A

August 20, 1993 (1st version)

21. Reset RBP to 5150' and packer to 4750'.
22. Pump the following acid job at no greater than 2 bbl/min:

Preflush : 3500 gal 15% HCl
Treatment : 3500 gal 35% ASOL, 65% (3% HF / 12% HCl) solution
Afterflush : 3500 gal 0.2% clay fix II / water
Displacement : 1020 gal 0.2% clay fix II / water

23. TIH with open ended 2 3/8" tubing with a seating nipple one joint off bottom. Land tubing at 5225'
24. Swab back load ASAP.
25. Tie well back into surface equipment and return to production.

Note: All water which will contact the MV during this procedure should contain clay fix.

KCl water, when in contact with HF acid, will form unwanted precipitates. The preflush will ensure that any downhole KCl is displaced prior to the pumping of HF acid.

All acid must contain 50 lb of citric acid per 1000 gal. of solution to serve as an iron sequestering agent.

The time between pumping acid and swabbing back the load should be kept to a minimum.