

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 checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input 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.)*

Amoco Production Company requests permission to perforate new intervals and frac this well per attached procedures.

If you have any technical questions please contact Stan Kolodize at (303) 830-4769, or Pat Archuleta at (303) 830-5217 for any administrative concerns.

RECEIVED
JUN 1 8 1996
OIL CON. DIST. 2

RECEIVED
BLM
JUN 14 AM 9:47
070 FARMINGTON, NM

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

Signed Pat Archuleta Title _____ Clerk

(This space for Federal or State office use)

Approved by _____ Title _____

Conditions of approval, if any:

APPROVED

JUN 05 1996

DISTRICT MANAGER

NMOC

Repair - Pay Add & Frac
Hardie LS 2 - Run 44 - Area 3
May 23, 1996

Procedure:

1. Check bradenhead pressure. Relay results to Stan Kolodzie in Denver.
2. Move in rig. Rig Up. Nipple up blowout preventer. Install blooie lines.
3. Blow down and control well. This work should be a "Hot Work" repair if possible. WITHIN THE BOUNDARIES OF WORKING REASONABLY SAFELY try to prevent using kill fluids to prevent the fluids from invading the Mesa Verde pay intervals.
4. Pull Mesa Verde 1 1/4" tubing string.
5. Run 4 1/2" bit and scraper and clean out to PBTD at 5410'.
6. Run composite bridge plug. Set the composite bridge plug at a depth of 5050'. There is a shaley interval from 5004' to 5055' above the current Pt. Lookout perfs. This interval should prevent frac communication from the new Menefee perfs to the Pt. Lookout perfs.

7. . Perforate the following depths with 1JSPF, select fire gun, for a limited entry frac:

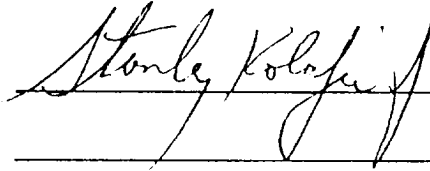
4842	4484	4848	4886	4892
4894	4896	4898	4936	4940
4955	4958	4960		

8. Run a frac liner and cover the current Cliffhouse perfs from 4588 to 4720'. This will keep the frac from going out of the target Menefee zone.
9. Frac the new Menefee perfs with the treatment described in attached Frac Schedule A.
10. Shut well in overnight. Flow the well to clean up the frac residue and the remaining frac sand.
11. Pull frac liner across Cliffhouse perfs.
12. Drill out composite bridge plug and use Nitrogen to clean out sand to PBTD at 5410'.
13. Run 2 3/8" tubing and land at approx. 5250'.

14. Remove BOP. Hook up well to production equipment.
15. Unload well with air unit or Nitrogen if necessary. Flow well to atmosphere with 1/2" or 3/4" choke for 2 hours to estimate gas rate for subsequent report.
16. RDMO service unit. Return well to production.

AUTHORIZATIONS

ENGINEER



PRODUCTION FOREMAN

WORKOVER FOREMAN

