

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. Jicarilla Contract 146 |
| 2. Name of Operator Amoco Production Company | | 6. If Indian, Allottee or Tribe Name Jicarilla Apache |
| 3. Address and Telephone No. | | 7. If Unit or CA, Agreement Designation |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 840' FNL 1030' FEL Sec. 4 T 25N R 5W Unit A | | 8. Well Name and No. Jicarilla Contract 146 36 |
| | | 9. API Well No. 3003922486 |
| | | 10. Field and Pool, or Exploratory Area Otero Chacra/Blanco Mesaverde |
| | | 11. County or Parish, State Rio Arriba 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 Bradenhead, DHC |
| | <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.)*

Amoco Production Company requests permission to perform a bradenhead repair, mill up the packer, and downhole commingle this well per the attached procedure.

Robert Kent gave verbal approval on 3/15/96.

RECEIVED
MAR 20 1996
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C.

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

Signed Patty Haefele Title Staff Assistant Date 03-15-1996

(This space for Federal or State office use)

Approved by Robert Kent Title for Chief, Lands and Mineral Resources Date MAR 19 1996
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, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

Need DHC order * See Instructions on Reverse Side

SJOET Well Work Procedure

Well Name: JICARILLA CONTRACT 146-36

Version: 1
Date: March 15, 1996
Budget: DRA/Repair Well
Repair Type: Bradenhead Remediation and Mill Up Packer & Downhole Commingle

Objectives:

1. Remediate steady flow of gas to insure zonal isolation behind casing.
 2. Place well back on production with both zones downhole commingled.
-

Pertinent Information:

| | |
|-----------------------|-------------------------|
| Location: A04 25N 05W | FM: CK/MV |
| County: Rio Arriba | API: 3003922486 |
| State: New Mexico | Engr: Steve Smethie |
| Lease: 290466 | Phone: H--(303)770-2180 |
| Well FLAC: 842337 | W--(303)830-5892 |
| TD: 5379 | PBTD: 5336 |

Economic Information:

| | |
|--------------------------|-----------------------------|
| APC WI: 100 % | Prod. Before Work: 180 MCFD |
| Estimated Cost: \$65,000 | Anticipated Prod.: 330 MCFD |
| Payout: 15 Mo | |
| Max Cost - 12 Mo. P.O: | |
| PV 15: \$M | |
| Max Cost PV 15: \$M | |

Note: Economics will be run on all projects that have a payout exceeding ONE year.

Formation Tops:

| | |
|----------------------|---------------------|
| Nacimiento: | Menefee: |
| Ojo Alamo: 2322 | Point Lookout: 5089 |
| Kirtland Shale: 2503 | Mancos Shale: |
| Fruitland: 2744 | Gallup: |
| Pictured 2904 | Graneros: |
| Lewis Shale: | Dakota: |
| Cliff House: 4587 | Morrison: |

Bradenhead Test Information:

Test Date: 5/29/95 Tubing: 125 Casing: 180 BH: 118

| <u>Time</u> | <u>BH</u> | <u>CSG</u> | <u>INT</u> | <u>CSG</u> |
|-------------|-----------|------------|------------|------------|
| 5 min: | 5 | 180 | | |
| 10 min: | 5 | 180 | | |
| 15 min: | 5 | 180 | | |

Comments: Bradenhead pressure builds at rate of 10 psi per minute when valve is closed to atmosphere.

SUGGESTED PROCEDURE:

1. TOH with 1-1/4" short string.
2. Unseat and pull 2-1/16" long string.
3. TIH with bit and scraper for 5-1/2", 15.5 #/Ft Casing to 3780'.
4. TIH with PKR and RBP. Set RBP AT 3700'. Cap with 10' of sand. Pressure test RBP to 1500 psi.
5. Pressure test casing above the PKR. Isolate leak. Establish injection rate into leak and attempt to circulate to surface.
6. TIH with a Cement Retainer and pump and circulate cement to surface. Shut bradenhead valve and attempt to squeeze to 1000 psi. WOC.
7. TIH with bit and scraper and drill out cement. Pressure test casing to 1000 psi.
8. TIH with retrieving head for RBP. Circulate sand off of RBP and TOH with RBP.
9. Mill up and pluck the Baker Model F Packer that is set at 4050'.
10. Clean out the wellbore to 5310'.
11. TIH with mule shoe, SN, and 2-3/8" tubing. Land tubing intake at 5280'.
12. Swab well in if necessary and RTP with the Chacra and Mesaverde downhole commingled.

BLM CONDITIONS OF APPROVAL

Operator Amoco Production Company Well Name Jic Cont 146 #36

Legal Location 840 FNL, 1030 FEL Sec. 4 T. 25 N. R. 5 W.

Lease Number Jic Cont. 146

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimum Federal restoration requirements will be required.

1. Pits will be fenced during workover operation.
2. All disturbances will be kept on existing pad.
3. Remove all hydrocarbons from temporary pit prior to closure.
4. Workover fluids will be contained in a lined pit or frac tank.