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.
NM-012200

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.
Dryden LS #3

2. Name of Operator
Amoco Production Company

Attention:
Gail M. Jefferson, Rm 1942

9. API Well No.
3004507244

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

(303) 830-6157

10. Field and Pool, or Exploratory Area
Blanco South (PC)/Blanco Mesaverde

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
990'FSL 990'FWL Sec. 21 T 28N R 8W Unit M

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 Bradenhead Repair | ☐ 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 proposes to perform a Bradenhead repair on the well referenced above per the attached procedures.

RECEIVED
MAR - 6 1995
OIL CON. DIV.
DIST. 3

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

Signed Gail M. Jefferson Title Business Assistant Date 02-21-1995

(This space for Federal or State office use)

Approved by _____ Title _____ APPROVED

Conditions of approval, if any:

MAR 03 1995

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.

AREA MANAGER

* See Instructions on Reverse Side

NMOCD

# SJOET Well Work Procedure

**Dryden LS #3**

**Version:** #1
**Date:** February 24, 1995
**Budget:** DRA
**Repair Type:** Bradenhead

**Objectives:**

1. Casing will be pressure tested.
2. CBL will be run to determine top of cement.
3. Remedial cementing will be performed to insure zonal isolation.

**Pertinent Information:**

| | | | |
|---|---|---|---|
| Location: | 990' FSL, 990' FWL, S21, T28N, R8W | Horizon: | MV |
| County: | San Juan | API #: | 300-45-07244 |
| State: | New Mexico | Engr: | Kwartin |
| Lease: | NM-012200 | Phone: | H--(303)343-3973 |
| Well Flac: | | | W-(303)830-5708 |
| | | | P--(303)553-6332 |

**Economic Information:**

| | | | |
|---|---|---|---|
| APC WI: | 100% | PC Prod. Before Repair: | 25 MCFD |
| Estimated Cost: | $42,500 | PC Anticipated Prod.: | 25 MCFD |
| Payout: | 4 YEARS | MV Prod. Before Repair | 100 MCFD |
| Max Cost -12 Mo. P.O. | NA | MV Anticipated Prod.: | 100 MCFD |
| PV15: | $M | | |
| Max Cost PV15: | $M | | |

**Note:** **Economics will be run on all projects that have a payout exceeding ONE year.**
***Note:** ***Economics run based upon 125 MCFD production vs 0 MCFD.***

**Formation Tops:** (Estimated formation tops)

| | | | |
|---|---|---|---|
| Nacimento: | | Menefee: | 3900' |
| Ojo Alamo: | 1150' | Point Lookout: | 4421' |
| Kirtland Shale: | 1315' | Mancos Shale: | 4635' |
| Fruitland: | 1880' | Gallup: | |
| Pictured Cliffs: | 2192' | Graneros: | |
| Lewis Shale: | 2291' | Dakota: | |
| Cliff House: | 3817' | Morrison: | |

**Bradenhead Test Information:**

**Test Date** 9/12/94 **Tubing:** 172 psi **Casing:** 179 psi **BH:** 30 psi

| Time | BH | CSG | INT | CSG |
|---|---|---|---|---|
| 5 min | 179 | | | |
| 10 min | 179 | | | |
| 15 min | 180 | | | |

Comments: Flowed 1" stream of water

1. Contact Federal or State agency prior to starting repair work.

2. Catch gas and/or water sample off of bradenhead and casing, and have analyzed.

3. Install and/or test anchors.

4. MIRUSU. Check and record tubing, casing and bradenhead pressures.

5. Blow well down, kill well if necessary with 2% KCL.

6. Nipple down well head, nipple up and pressure test BOP's.

7. Trip in the hole and tag PBTD, check for fill, trip and tally out of hole with tubing checking condition of tubing.

8. Trip in the hole with bit and scraper for the intermediate casing and trip in to the top of the liner. Trip out of the hole with bit and scraper. Trip in hole with second bit and scraper and run from the top of the liner to the top of the perforations. A seating nipple and standing valve may be run in order to pressure test the tubing.

9. Trip in the hole with RBP and PKR. Set RBP 50-100 ft. above perforations. Trip out of hole one joint and set PKR and pressure test RBP to 1500 psi. Release PKR, spot sand on RBP and pressure test csg to 1000 psi. If no leak is found, trip out of hole with PKR and skip to step 11.

10. Trip out of hole isolating leak in liner, if any. If a liner leak is found, establish injection rate and check for circulation around liner top. Also, determine if there is a leak above the top of the liner. Trip out of hole with PKR.

11. Determine from well file and history, the interval a CBL needs to be run between the RBP and the surface. If a CBL is needed, run CBL over the interval necessary under 1000 psi and report results to Denver. Different size CBL tools may be required in the liner versus the intermediate casing.

12. If there are no casing leaks, skip to step 14.

13. If there is a leak in the liner and a leak above the top of the liner, trip in hole with a RBP that fits the liner and a PKR that fits the intermediate casing. Set RBP 30-60' below the top of the liner. Release PKR and trip out of hole isolating leak in the intermediate casing.

14. Based on the location of the leak, if any, and the results of the CBL, perforate casing if necessary with 4 JSPF and circulate dye if possible to determine cement volume. Depending on the depth of the hole and circulating pressure, a PKR or a cement retainer may be needed.

15. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to circulate to surface, if circulation to surface is possible. Shut bradenhead valve and attempt to obtain a squeeze pressure and WOC.

16. Trip out of hole. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.

17. If cement is not circulated to the surface, it may be necessary to run another CBL (and/or temperature survey 8-10 hours after cementing) and repeat steps 14 thru 16.

18. Trip in the hole with retrieving head for RBP, circulate sand off of RBP and trip out of hole with plug.

19. If there is a leak in the liner top, trip in hole with a PKR. If there is no leak in the liner top, skip to step 22.

20. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to squeeze liner top. Attempt to obtain a squeeze pressure and WOC.

21. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leak if liner top fails pressure test.

22. If there is a second RBP in the liner, trip in the hole with a retrieving head, circulate sand off of the RBP and trip out of hole with the plug.

23. If there is a leak in the liner or squeeze work is required based on the CBL, perforate casing, if necessary with 4 JSPF. Trip in hole with a cement retainer and set above the leak or perforations.

24. Mix and pump sufficient cement (class B or equivalent with two hour setting time) and attempt to obtain a squeeze pressure and WOC.

25. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.

26. Trip in the hole with retrieving head for RBP set in the liner, circulate sand off of RBP with 2% KCL and trip out of hole with plug.

27. Trip in hole with a sawtooth collar and/or bailer and clean out to PBTD and trip out of hole.

28. Trip in the hole with the production string (1/2 mule shoe on bottom and a seating nipple one joint off bottom), land tubing to original depth. Nipple down BOP's, nipple up well head.

29. Swab well in and put well on production.

30. Rig down move off service unit.

***If problems are encountered, please contact:***

*(W) (303) 830-5708*
*(H) (303) 343-3973*

**Amoco Production Company**

ENGINEERING CHART

Sheet No ____ Of ____

File ____

Lease NM012200

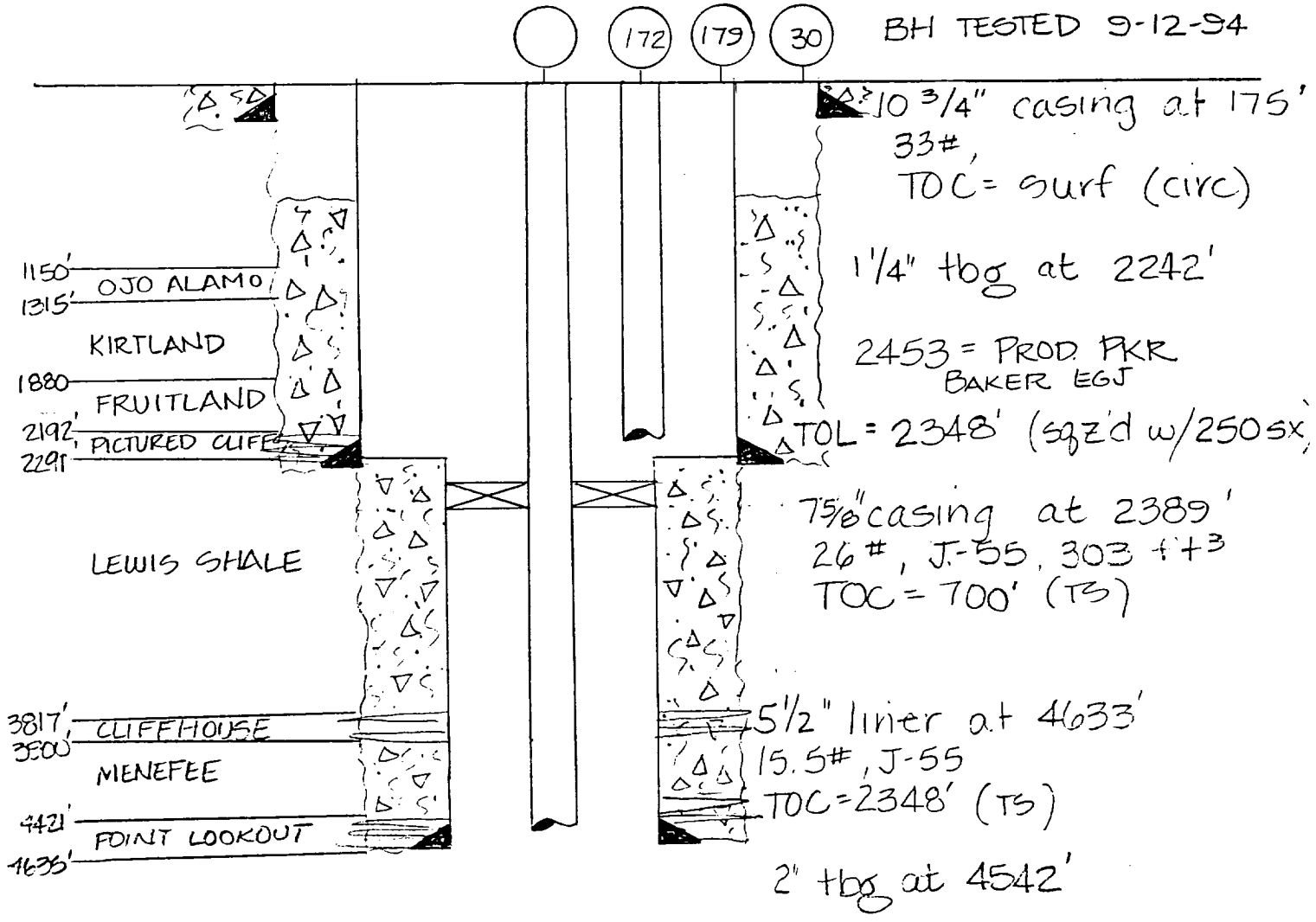
Date 2-15-95

By ZDK

SUBJECT DRYDEN LS #3

990' FSL 990' FWL 21-28N-8W

Comp 8/57 Elev 5779' TD = 4635' PBTD = 4610'




PC PERFS: 2192 - 2234' 2spf

MV PERFS: 3818 - 3902' 2spf

4420 - 4600'