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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 and also representations as to any matter within its jurisdiction.

Bradenhead Leak Repair Navajo Allotted GC A 1A - Run 32 July 15, 1994

## Procedure:

This workover should be done with the well "Worked Hot" unless the risk of losing well control is too great. Working hot will minimize formation damage due to invasion of the kill fluids.

- 1. Move in rig. Rig Up. Nipple up blowout preventer. Install blooie lines.
- 2. Run tubing choke to minimize gas up tubing. Pull tubing.
- 3. Run bit and scraper to bottom of perfs at 4563.
- 4. Run bridge plug. Set bridge plug near top perforation to minimize pressure buildup below bridge plug.
- 5. Run Free Point Indicator. Determine free point for 4 1/2" casing. Back off 4 1/2" casing using string shot.
- 6. Set Bridge plug near bottom of 7 5/8" casing (2234'). Fill casing with water. Run Cement Bond log to determine the top of cement.
- 7. Determine depth of casing leak with packer and tubing.
- 7. Circulate water with dye to surface, if possible. Measure water volume to determine cement volume needed to circulate to surface.
- 8. Squeeze casing leak with the volume of cement required to circulate to surface. Allow cement to set until morning.
- 9. Drill out cement. Pressure test squeeze to 1000 psi.
- 10. Inspect and rerun 4 1/2" casing. Tie into 4 1/2" in well.
- 11. Circulate out water with air foam or Nitrogen. Pull retrievable bridge plug. Rerun tubing with tubing choke. Pull choke.
- 12. Nipple down BOP. RDMO service unit. Return well to production.

AUTHORIZATIONS ENGINEER	Stanla Kolida
PRODUCTION FOREMAN	
WORKOVER FOREMAN	

## BRADENHEAD/CASING REPAIR NAVAJO ALLOTTED GC A 1A - Run 32 July 15, 1994 MATERIALS LIST

## <u>Amoco</u>

Service Unit with Rig Pump
Bit and scraper for 4 1/2" 10.5# casing
Tubing chole for 2 3/8" 4.7# tubing
Retrievable Bridge Plug for 4 1/2", 10.5# casing
Retrievable Bridge Plug for 7 5/8", 24# casing

<u>Cement</u>

<u>Vendor</u>

Alternate

Dye to determine cement volume needed Plugging volumes - light weight cement