

## PLUG AND ABANDONMENT PROCEDURE

3-21-98

### **Lindrith B Unit #76**

Lindrith Gallup / Dakota West  
1150' FNL & 1750' FWL / NW, Sec. 1, T24N, R3W  
Rio Arriba County, New Mexico

**Note:** All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and Conoco safety rules and regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Lay relief line to pit and blow well down; kill with water as necessary. Pull rods and LD.
3. ND wellhead and NU BOP and stripping head; test BOP. POH and tally 2-7/8" tubing (7735'); visually inspect the tubing. If necessary LD tubing and PU 2" workstring.
4. **Plug #1 (Dakota perforations and top, 7708' – 7608')**: PU and TIH with 5-1/2" cement retainer and set at 7708'. Load casing with water and pressure test to 500#. If casing does not test, spot or tag subsequent plug as appropriate. Spot 17 sxs Class B cement above CR to isolate Dakota perforations and cover top. TOH to 6698.
5. **Plug #2 (Gallup top, 6698' - 6598')**: Mix 17 sxs Class B cement and spot balanced plug inside casing to cover Gallup top. TOH to 5566'.
6. **Plug #3 (Mesaverde top, 5566' - 5466')**: Mix 17 sxs Class B cement and spot balanced plug inside casing to cover Mesaverde top. TOH to 3344'.
7. **Plug #4 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3344' - 2680')**: Mix 81 sxs Class B cement and spot balanced plug inside casing to cover Pictured Cliffs through Ojo Alamo top. TOH to 470'.
8. **Plug #5 (13-3/8" Surface Casing at 420')**: Mix 53 sxs Class B cement and spot a balanced plug to cover surface casing shoe, circulate good cement out casing valve. POH and LD tubing. Shut in well and WOC.
9. ND BOP and cut off well head below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.