State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

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PLUG AND ABANDONMENT PROCEDURE

3-3-99

Roberts #1

Aztec Pictured Cliffs
AIN: 1145901
790' FSL, 790' FEL, Sec. 4, T30N, R11W
San Juan 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 location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Burlington safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.
- 2. POH and tally 1" tubing (2165'), actual size and depth unknown. If 1" tubing then LD and PU 2-3/8" tubing workstring. Round-trip 5-1/2" gauge ring or easing scraper to 2052'.
- 3. Plug #1 (Pictured Cliffs interval and Fruitland top, 2052' 1730'): Set 5-1/2" wireline bridge plug at 2052'. TIH with open ended tubing and tag CIBP. Load casing with water and establish circulation. Pressure test casing to 500#. If casing does not test, spot or tag subsequent plug as appropriate. Mix 43 sxs Class B cement and spot a balanced plug inside casing above the CIBP to isolate the Pictured Cliffs and to cover Fruitland. TOH with tubing.
- 4. Plug #2 (Kirtland and Ojo Alamo top, 800' 582'): Perforate 3 HSC squeeze holes at 800'. Establish rate into squeeze holes if casing tested. Set 5-1/2" cement retainer at 750'. Pressure test tubing to 1000#. Establish rate below retainer into squeeze holes. Mix 95 sxs Class B cement, squeeze 64 sxs cement outside 5-1/2" casing and leave 31 sxs cement inside casing to cover Ojo Alamo top. TOH and LD tubing. Pressure test casing to 500 psi. If casing fails then perform pump-around test to estimate casing hole depth.
- 5. Plug #3 (8-5/8" Surface casing at 85'): Perforate 3 HSC squeeze holes at 135'. Establish rate out bradenhead valve. Mix and pump approximately 60 sxs Class B cement down casing and circulate good cement out bradenhead valve. If pressure test failed in step #4, then utilize cement retainer if casing leak is above 135'. Shut well in and WOC.
- 6. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

Recommended: /

Operations Engineer

Kevin Midkiff Office - 326-9807

Pager – 564-1653

1 3/15/99 Approved:

Drilling Superintendent