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OIL CON. DIV.

PLUG & ABANDONMENT PROCEDURE

11-17-95

Water Well

East . Lindrith #2
So. Blanco Pictured Cliffs
NE Section 27, T-24-N, R-2-W
Rio Arriba Co., 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 to all NMOCD, BLM, and Merrion safety regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with water as necessary. ND wellhead and NU BOP. Test BOP.
3. POH and tally 1-1/2" tubing; visually inspect the tubing. If necessary, LD and PU 1-1/2" workstring. Pump 20 bbls water down 3-1/2" casing.
4. Plug #1 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3272' - 2780'): Perforate 4 holes at 2875' and 2830'. RIH with 1-1/2" tubing workstring open ended to 3272' or as deep as possible. Load casing with water and attempt to circulate well. Mix and pump 51 sxs Class B cement and spot cement to 1940'. Pull out of hole to 1500' and squeeze 35 sxs outside casing (7.8 bbls). Shut in well and WOC. RIH and tag cement, refill if necessary. Pressure test tubing to 1000#. POH with tubing.
5. Plug #2 (Below Nacimiento top, 1540' - 1440'): Run 3-1/2" gauge ring to 1500'. Perforate 4 squeeze holes at 1540'. If casing pressure tested, establish rate into squeeze holes and attempt to circulate to surface. RIH with 3-1/2" wireline set cement retainer, set at 1500'. Establish rate into squeeze holes. Mix and pump 19 sxs Class B cement, squeeze 13 sxs cement outside casing from and leave 6 sxs cement inside casing to cover Nacimiento top. Pressure test casing to 500#. POH and LD tubing.
6. Perforate zones for water well as directed. RD and move off location.