

Cementing Program

9-5/8" surface casing: 110 sacks (125 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3% CaCl_2 . WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

7" Intermediate casing: STAGE ONE - 95 sacks (142 cu. ft.) of 50/50 Class "B" Poz with 6% gel (mixed w/7.2 gals wtr /sx). (Volume is 50% excess to cover top of Cliff House.)

STAGE TWO - 165 sacks (325 cu. ft.) of 50/50 Poz w/6% gel, followed by 70 sacks of Class "B" w/2% CaCl_2 . (Volume is 50% excess to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

WOC 12 hours. Test to 1000 psi before drilling out.

4-1/2" Liner: 320 sacks (476 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack, 0.6% Halad 9 or equivalent. (Volume is 70% excess).
If hole gets wet and mist drilling is required, use 380 sacks (560 cu. ft.) for 100% excess.

Precede cement with 20 barrels of gelled water.

L. O. Van Ryan

Date