

U.S.G. Section 19 No. 13

Type "C" CEMENT with 2% CaCl. Maximum pressure 800. Perfed 9-5/8" casing at 1200' with 4 SPF. Ran tubing and cement retainer set at 1000'. Pressured back side with 1000 psi. Squeezed with 150 sacks Type "C" cement with 2% CaCl. Pumped 6 barrels cement in perfs at 1200 psi with 9-5/8"-13-3/8" annulus open. Pumped at 200 psi and held 100 psi. Circulated and WOC 4 hours. Pressured back side with 1000 psi. Pumped into perfs at 1-1/2 BPM at 1200 psi. Squeezed with 100 sacks Type "C" cement with 2% CaCl. Cleared retainer and staged cement 2 times. Pressure increased to 1200 psi and held with 10 barrels cement in perfs and 3 barrels cement in casing. Reverse circulated. WOC 8 hours. 9-5/8"-13-3/8" annulus dead. Ran mechanical casing cutter, 2 drill collars and 2-7/8" drill pipe. Cut 9-5/8" casing at 925' and circulated out annulus. Removed BOP and pulled 916' 9-5/8" casing. Spotted 65 sacks Type "C" cement with 2% CaCl 925-825'. Released service unit on 7-4-70. Left well in condition to be completed in Dakota formation at about 750' if needed as producer. No surface plug or marker set.