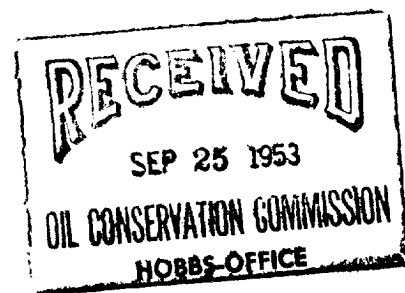


Ran 190 jts & 1 nipple 5687' of 7" OD 23# & 2p# Hydrill triple seat T&C J-55 SS casing w/10 Weatherford Centralizers & 54 Weatherford scratchers from 5697' to 4948', Baker guide shoe & 2 Howco float collars. Set & Cemented at 5699' in 2 stages w/total of 385 sacks cement. 1st stage w/70 sacks 4% Gel Longhorn & 100 sacks Neat on bottom, max. pressure 800#. 2nd stage thru Howco DV tool at 4490' w/215 sacks 4% Gel Longhorn cement, max. pressure 1200#. Circulated tool approximately 2 sacks cement thru DV tool before pumping 2nd stage. Ran Gulf temperature survey after 9 hrs and found no indication of cement behind 7" casing. Ran Howco temperature survey after 12-1/2 hours w/no indication of cement. Slacked off on casing to set slips after 20 hrs & found 3" slack in casing indicating cement near top. Set slips & nipples up. Tested casing & connections w/1000# for 30 min, no drop in pressure. Installed pressure gauge. BU pressure on 9-5/8" & 7" casing annulus from 0 to 825 psi in 10 hrs indicating gas leak thru cement. Drilled plugs & cement from 5629 to 5695'. Perforated 7" casing at 3800' w/4, 1/2" bullet holes fired simultaneously by Howco. Attempted to pump thru perforations w/2400#. No drop in pressure. Pumped to 1500# waited 30 min, no drop in pressure & pumped up to 2000#, waited 20 min, no drop in pressure. Pumped to 2200#, waited 14 min, no drop in pressure. Pumped to 2400#, waited 15 min, no drop in pressure. Pressure on 9-5/8" casing build up to 940# in 18 hrs, bleed off pressure & fill w/6 bbls mud. Pressured 9-5/8" casing to 1500# w/water for 30 min, pumped 5-1/2 bbls water while pressuring up. Released pressure to 0#, bleed back 4-1/2 bbls water. Closed casing head 1 hr pressure build up to 100#. Opened & bled off 1/2 bbls water, mixed & pumped 31 sacks Longhorn Reg Neat cement 16# slurry between 9-5/8" & 7" casing from top w/1800# max pressure on 9-5/8" casing & 1000# inside 7" casing. Bled back pressure on 9-5/8" casing to 400# & 500# on 7" casing. Waited on cement 9 hrs, opened valve & bled off pressure, closed valve for 3 hrs. Pressure built up to 125#. Pressure bleeds off immediately when valve is opened.



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