

GRAHAM STATE "C" #3

TD 4030' Started reaming 4-3/4" hole to 6" reaming at bottom of 5 1/2" casing at 3532'. Cleaned out to 4030'. Ran 164 joints 4018' of 4 1/2" 16.60 drill pipe. Set and cemented at 4029' w/100 sacks 4% Gel regular Lone Star cement. Plug at 4006'. Maximum pressure 2000#. Gulf temperature survey in 4 hours showed top cement behind 4 1/2" pipe at 1370' from rotary table. Circulated down 5 1/2" casing and out 7-5/8" and started recementing. Got cement returns in 15 minutes, 220 sacks cement used. Drilled cement plug from 4006' to 4029', cleaned out to 4030'. Tested casing before drilling plug w/1000# pressure for 30 minutes. There was no drop in pressure. Tested after drilling plug w/300# pressure for 30 minutes. There was no drop in pressure. Perforated 4 1/2" casing by Lane Wells with 4, 1/2" jet holes per foot from 4029' to 3970'. Acidized thru 2-3/8" tubing with 2000 gallons 15% regular acid by Cardinal. TP 3900-2500#. CP 2500-200#. Average injection rate 37 gallons per minute. Injection time 55 minutes, duration time 2 hours. Reperforated 4 1/2" casing from 3970' to 4029' with 4, 1/2" jet holes per foot. Perforated from 3900' to 3955' and 3844' to 3862' with 4, 1/2" jet holes per foot by Lane Wells. Acidized thru 2-3/8" tubing with 1000 gallons mud acid followed by 4000 gals regular acid by Cardinal. TP 1900-250#. CP 1900-500#. Average injection rate 73 gallons per minute. Injection time 1 hour 9 minutes. Duration time 1 hour 24 minutes.

RESULTS: Completed September 30, 1952. Flowed 21 bbls oil no water in 24 hours thru 2-3/8" tubing on 17/64" choke on Oil Conservation Commission. 24 hour gas volume 284,000 cu.ft. GOR 13,524. Allowable 10 bbls per day penalized, effective 10-1-52. Test completed 11:00 AM 30th. TP 50#. CP 275#. Daily average production for August none. Allowable before workover 3 bbls per day.

*4 1/2" casing perforated
3900' - 4029'*

