WHITMIRE #3

Pulled 2-3/8" tubing. Plugged back from 3880' to 3850' with pea gravel. Dumped 2 sacks Calseal on top of pea gravel at 3850' by HOWCO. Top calseal at 3830'. Perforated from 3800' to 3760'. Ran 5½" Model K Baker cast iron retainer on 2-3/8" tubing and set at 3812'. Squeeze cemented below retainer w/5 sacks. Maximum pressure 150#, staged 10 min. Pumped 4½ sacks below retainer w/350#. Unscrewed from retainer, raised tubing to 3804' and back washed 1 sack cement. Found top of cement plug at 3804' Ran 2-3/8" tubing w/5½" Model K cast iron cement retainer & set at 3750'. Squeeze cemented w/75 sacks regular cement by HOWCO. Pumped 50 sacks below retainer w/1400#. Took 5 sacks on vacuum in 25 min, then pumped in 5 sacks w/800# in 5 min - 2½ sacks w/1200# in 5 min - 5 sacks w/2200#. Pressure held at 2200#. Picked up tubing to 3740'. Back washed 5 sacks cement. Perforated 5½" casing from 3700' to 3730'. Ran tubing w/3 Olsco type "O" Flow Valves. Acidized thru 2-3/8" tubing w/1000 gallons 15% NE acid. TP 1300-1000#. CP 1300-1000#. Average injection rate 7 GPM. Flushed w/15 bbls oil. Injection time 2 hrs 18 min. Duration time 2 hrs 40 min. Acidized w/3000 gallons 15% NE acid. TP 1300-1000#. CP 1300 #. Average injection rate 24 GPM. Flushed w/15 bbls oil. Injection time 2 hrs 3 min. Duration time 2 hrs 36 min. Ran tubing w/4-3/4" bit, drilled out cement from 3740' to 3750'. Perforated 5½" casing from 3729' to 3749'. Acidized with 5000 gallons 15% NE acid. TP 700-1000#. CP 500-1000#. Flushed w/15 bbls of water. Average injection rate 40 GPM. Injection time 2 hrs. Duration time 2 hrs 25 min. Drilled retainer and cement from 3750' to 3834'. Drilled out Calseal and pea gravel from 3834' to 3880'. Dumped 2½ sacks cement w/HOWCO dump bailer. Found top cement at 3864'. Plugged back from 3864' to 3849' w/12 gallons of Hydromite by HOWCO. Ran tubing w/4 Olsco type "O" Flow Valves. Tubing set at 3842'. Perforations at 3838'.

RESULTS: Initial flowed 13 oil and 108 water thru 2-3/8" tubing in 24 hours with outside gas ending August 26, 1952. 24 hour formation gas volume 31,000 cu.ft. Formation GOR 2385. 24 hour input gas volume 139,000 cu.ft. Input GOR 10,700. Input GFR 1149. Allowable 13 bbls exempt. Daily average production before workover none - producing gas only for July 1952. Allowable before workover 11 bpd exempt.