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Ran DST No. 5

Ran Schlumberger, Gamma Ray, Resistivity and Micro Log 12,800-12,900'.

Ran and cemented 352 joints of 5 $\frac{1}{2}$ " casing and set at 12,912' cemented with 900 sacks 4% Gel cement. Ran Temperature Survey top of cement at 7660'. Ran Schlumberger, Gamma Ray, Neutron and Collar Log. Set Howco D.C. Squeeze Packer at 12,902' and squeezed 2 barrels cement into formation, reversed out 24 sacks cement. Ran Eastman Survey and Velocity Survey. Ran Schlumberger.

Perforated 12848-12826' with 4 jets per foot (Schlumberger measurements).

Set Johnston Hookwall packer at 12788' opened tool at 7:45 P.M. with good blow, immediately increased to strong, after 25 minutes, blow started decreasing, gas to surface in 90 minutes, decreased to weak blow. Tool open 11 hours, 45 minutes, recovered 2450' total fluid, being 90' oil, 1770' heavily oil and gas cut mud and 590' heavily water and gas cut mud. BHFP 0#, BHFP 825#, Hydrostatic 5875#. Set packer at 12,776', acidized with 2000 gallons of acid. Swabbed salt water.

With tubing hung at 12,865' cemented perfs with 30 sacks Inferno Cement.

Ran McCullough Magnatector, cut casing at 7600'. Pulled casing.

With tubing set at 7693', cemented over 5 $\frac{1}{2}$ " casing with 75 sacks Inferno Cement. Effective plug 7693 to 7493'. Finished pulling casing.

With tubing set at 4913', plugged with 100 sacks regular Neat cement. Top of plug at 4660' inside of 9-5/8" with bottom at 4913'.

Ran McCullough Magnatector, cut 9-5/8" od casing at 1180'. Lay down 9-5/8" casing.

With tubing hung at 1205', plugged back from 1205' to 937' with 200 sacks regular neat cement. With tubing set at 343', plugged back from 343' to 219' with 100 sacks Regular Neat cement.

Plugging completed February 19, 1954.

OPEN HOLE DST'S:

DST No. 1 - 35" - 9280-9340', weak blow air 30" and died, opened by-pass, weak blow 5 minutes and died, recovered 200' gas cut mud, BHFP 65#-95#, BHSP 1.54(15").

DST No. 2 - Had leak in pipe, no test.

DST No. 3 - 1 hour - 12,834-12,846', weak blow air 20" and gradually decreased and died, 3000' water cushion, recovered 35' free oil (42.8° @ 600), 180' moderately oil and heavily gas cut water blanket, 245' heavily oil and gas cut water blanket, 2070' slightly oil and heavily gas cut water blanket and 720' slightly oil and heavily gas cut water blanket with mud, 1500# water pressure, no flowing pressure, BHSP 4625# (15 minutes).

DST No. 4 - No test, packer failed to hold.