

OPEN FLOW TEST DATA

Date: August 2, 1962

Operator: Shir Alan Lease: Norfolk #2

Location: SE 1/4 Sec. 7, T. 23 N., R. 1 W County: Rio Arriba State: N. M.

Formation: P C Pool: Undesignated

Casing: 4 1/2 " Set @ 3206 ' Tubing: 1 " Set @ -

Pay Zone: 3063 ' To: 3122 ' Total Depth: -

Choke Size: 3/4 THC " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing x Tubing _____

Shut-in Pressure Casing: 880 psig / 12 = 892 psia (Shut-in 8 days)

Shut-in Pressure Tubing: _____ psig / 12 = _____ psia

Flowing Pressure: P : 187 psig / 12 = 199 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 56 °F / 460 = 516 °Absolute

F_{pv} (from tables) : 1.018 Gravity .620 Est n .85

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$12.365 \times 199 \times 1.0089 \times .9837 \times 1.018 = \underline{2475} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

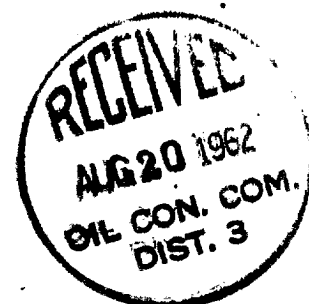
$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/n} = \frac{892^2 - 199^2}{892^2}$$

$$\left[\frac{795,664}{756,063} \right]^{1/n} = 1.0043$$

Aof =

2585

MCF/D



By: D. W. Stiles

Used By: _____

Gelectric, Inc.

B. H. Keyes