

OPEN FLOW TEST DATA

Date: August 2, 1962

Operator: Spar-Alan Lease: Evans #1

Location: SW 1/4 Sec. 18, T. 23 N., R. 1 W. County: Rio Arriba State: N. M.

Formation: P C Pool: Undesignated

Casing: 4 1/2 " Set @ 3074 ' Tubing: " Set @

Pay Zone: 2874 ' To: 2997 ' Total Depth: 3074

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

Stimulation Method: Flow Through: Casing X Tubing

Shut-in Pressure Casing: 962 psig / 12 = 974 psia (Shut-in 8 days)

Shut-in Pressure Tubing: psig / 12 = psia

Flowing Pressure: P : 169 psig / 12 = 181 psia

Working Pressure: P_w : psig / 12 = psia

Temperature: T : 53 °F / 460 = 513 °Absolute

F_{pv} (from tables) : 1.017 Gravity .620 Est n 85

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

$$12.365 \times 181^0 \times 1.0068 \times .9837 \times 1.017 = \frac{2254}{\text{MCF/D}}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/2} \times \frac{974}{181} = 1.0303$$

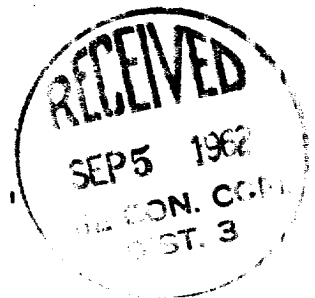
$$Aof = \frac{948,676}{915,915} = 1.0303$$

$$Aof = \frac{2322}{\text{MCF/D}}$$

Tested By: D. W. Stiles

Witnessed By:

Geoelectric, Inc.



B. H. Kugel