

OPEN FLOW TEST DATA

Date: July 24, 1962

Operator: Shar-Alan Lease: Hall Fed. #2

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

Formation: PC Pool: Undesignated

Casing: 4 1/2 " Set @ 3363 ' Tubing: 1 " Set @ 3330

Pay Zone: 3314 ' To: 3350 ' Total Depth: 3374

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

Stimulation Method: _____ Flow Through: Casing x Tubing

Shut-in Pressure Casing: 850 psig / 12 = 862 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 850 psig / 12 = 862 psia

Flowing Pressure: P : 134 psig / 12 = 146 psia

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

Temperature: T : 39 °F / 460 = 499 °Absolute

F_{pv} (from tables) : 1.015 Gravity .620 Est n 85

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

$$12.365 \times 146 \times 1.0208 \times .9837 \times 1.015 = \underline{1840} \text{ MCF/D}$$

$$\text{Open Flow} - Aof = Q$$

$$Aof =$$

$$\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]^n$$

$$\left[\frac{862^2 - 146^2}{862^2 - 146^2} \right]^n$$

$$\left[\frac{743,044}{721,728} \right]^n$$

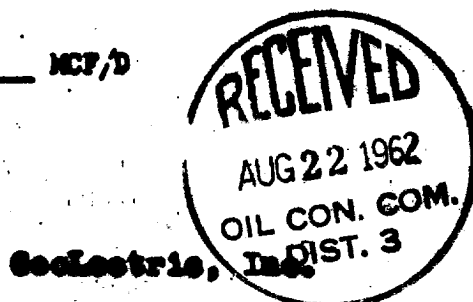
$$= 1.0250$$

$$Aof =$$

$$\underline{1886} \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____



Gelectric, Inc.

[Signature]