

OPEN FLOW TEST DATA

Date: August 2, 1962

Operator: Shar-Alan Lease: Meraleok #1

Location: Sec. 7, T. 23 N., R. 1 W. County: Lincoln State: N. M.

Formation: PC Pool: Undesignated

Casing: 4 1/2 " Set @ 3151 ' Tubing: 1 3/8 " Set @ 3085

Pay Zone: 3075 ' To: 3085 ' Total Depth: 3165

Choke Size: 3/4 IN " Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing x Tubing _____

Shut-in Pressure Casing: 855 psig / 12 = 867 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 855 psig / 12 = 867 psia

Flowing Pressure: P : 119 psig / 12 = 119 psia

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

Temperature: T : 48 °F / 460 = 508 °Absolute

F_{pv} (from tables) : 1.011 Gravity .620 Bsp n 85

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

$$14.1605 \times \frac{Q}{119} \times 1.0117 \times .9837 \times 1.011 = \frac{1695}{119} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/n} = \left[\frac{867^2 - 119^2}{867^2} \right]^{1/n} = 1.0162$$

$$Aof = \frac{751,609}{737,528} = 1.0162$$

$$Aof = \frac{1722}{119} \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____

Gelectric, Inc.

[Signature]