

OPEN FLOW TEST DATA

Date: August 2, 1962
 Operator: Shur-Alan Lease: Moraleak #1
 Location: Sec. 7, T. 23 N., R. 1 W. County: Rio Arriba State: N. M.
 Formation: PC Pool: Undesignated
 Casing: 4 1/2 " Set @ 3151 ' Tubing: 1 1/2 " Set @ 3085
 Pay Zone: 3075 ' To: 3085 ' Total Depth: 3165
 Choke Size: 3/4 BM " 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 : 107 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 Est n 85

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

$$14.1605 \times 119 \times 1.0017 \times .9837 \times 1.011 = \frac{1695}{n} \text{ MCF/D}$$

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

$$Aof =$$

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.5} = \left[\frac{867^2 - 119^2}{867^2} \right]^{.5}$$

$$\left[\frac{751,689}{737,528} \right]^{.5} = 1.0162$$

$$Aof =$$

$$1722 \text{ MCF/D}$$

Tested By: D. W. Styles

Witnessed By: _____

GeoElectric, Inc.

[Signature]

