

OPEN FLOW TEST DATA

Date: APRIL 12, 1964

Operator: SHAR ALAN OIL COMPANY

Lease: / ROSA UNIT # 49

Location: SW/4, SECTION 27, T 31 N, R 4 W

County: RIO ARriba State: N.M.

Formation: MEBAVERDE

Pool: _____

Casing: 4 1/2 " Set @ 7135 ' Tubing: 2-3/8 " Set @ 7000

Pay Zone: 6115 ' To: 6127 ' Total Depth: 8501

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 2115 psig / 12 = 2127 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 2110 psig / 12 = 2122 psia

Flowing Pressure: P : 126 psig / 12 = 138 psia

Working Pressure: P_w : 667 psig / 12 = 679 psia

Temperature: T : 51 °F / 460 = 511 °Absolute

F_{pv} (from tables) : 1.014 Gravity Est .630 n 75

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

$$12.365 \times 138 \times 1.0088 \times .9759 \times 1.014$$

$$Q =$$

$$= \underline{1704} \text{ MCF/D}$$

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

$$Aof =$$

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

$$\left[\frac{4,524,129}{4,063,088} \right]^n$$

$$= 1.1135 \approx 1.0840$$

$$Aof =$$

$$\underline{1847} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____



Geoletric, Inc.