

OPEN FLOW TEST DATA

Date: 4-12-63

Operator: Harold A. Yaffee Lease: H. A. Yaffee #1

Location: NE $\frac{1}{4}$ 6-25N-3W County: Rio Arriba State: New Mexico

Formation: P C Pool: S B P C

Casing: 4 $\frac{1}{2}$ " Set @ 4030 ' Tubing: 2-3/8 " Set @ 3770

Pay Zone: 3964 ' To: 3998 ' Total Depth: _____

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing x

Shut-in Pressure Casing: 935 psig / 12 = 947 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 935 psig / 12 = 947 psia

Flowing Pressure: P : 538 psig / 12 = 550 psia

Working Pressure: P_w : 672 psig / 12 = 684 psia

Temperature: T : 59 °F / 460 = 519 °Absolute

F_{pv} (from tables) : 1.045 Gravity Est .620 n 85

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

$$Q = \frac{12.365 \times 550 \times 1.0010 \times .9837 \times 1.045}{1} = \frac{6998}{1} \text{ MCF/D}$$

$$\text{Open Flow} - A_{of} = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

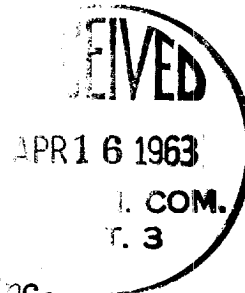
$$A_{of} = \left[\frac{896,809}{428,953} \right]^n = 2.0907 = 1.8717$$

$$A_{of} = \frac{13,098}{1} \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____

GeoLectric, Inc.



B. H. Keays