

# OPEN FLOW TEST DATA

Date: January 17, 1973

Operator: Wynn Oil Company Lease: Federal Largo #3 A

Location: Sec. 14, Township 27N, Rge. 3W County: Rio Arriba State: N.M.

Formation: Chacra Pool: Large Chacra

Casing: 4 1/2 " Set @ 5604 ' Tubing: 1 1/2 " Set @ 3915

Pay Zone: 3890 ' To: 3924 ' Total Depth: LB 5539

Choke Size: THC " Choke Constant = C = 12.365

Stimulation Method: \_\_\_\_\_ Flow Through: Casing X Tubing \_\_\_\_\_

Shut-in Pressure Casing: 869 psig / 12 = 881 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 869 psig / 12 = 881 psia

Flowing Pressure: P : 62 psig / 12 = 74 psia

Working Pressure: P<sub>w</sub> : Calculated psig / 12 = 79 psia

Temperature: T : 40 °F / 460 = 500 °Absolute

F<sub>pv</sub> (from tables) : 1.008 Gravity Est. 670 n 75

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

$$12.365 \times 74 \times 1.0198 \times .9463 \times 1.008$$

$$Q = \underline{\hspace{2cm}} = \underline{890} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[ \frac{881^2}{881^2 - 79^2} \right]^n$$

$$= \frac{776,161}{769,920} = 1.0081 = 1.0060$$

Aof = 895 MCF/D

Tested By: R. C. Dintelman

Witnessed By: \_\_\_\_\_

Calculated by

B. H. H. H.  
GeoElectric, Inc.

