

# OPEN FLOW TEST DATA

Date: January 23, 1973

Operator: Wynn Oil Company Lease: Federal Largo #2-1

Location: Sec. 13, Twnship 27N, Rge 8W County: Rio Arriba State: N.M.

Formation: Chacra Pool: Undesignated Chacra

Casing: 4½" Set @ 5048 ' Tubing: 1½" Set @ 3363

Pay Zone: 3368 ' To: 3380 ' Total Depth: IB 5000

Choke Size: ¾" THC " Choke Constant = C = 12.365

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

Shut-in Pressure Casing: 1082 psig / 12 = 1094 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1082 psig / 12 = 1094 psia

Flowing Pressure: P : 102 psig / 12 = 114 psia

Working Pressure: P<sub>w</sub> : Calculated psig / 12 = 120 psia

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

F<sub>pv</sub> (from tables) : 1.013 Gravity Est. .670 n 75

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

$$12.365 \times 114 \times 1.0198 \times .9463 \times 1.013$$

$$Q = \underline{\hspace{2cm}} = \underline{1379} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[ \frac{P_c^2 - P_w^2}{P_c^2} \times \frac{1094}{120} \right]^n = 1.0122 = 1.0091$$

$$Aof = \left[ \frac{1,196,836}{1,182,436} \right]^n$$

$$Aof = \underline{\hspace{2cm}} = \underline{1392} \text{ MCF/D}$$

Tested By: R. C. Dintelman

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

Calculated by

GeoElectric, Inc.

*B. H. Hayes*

