

# OPEN FLOW TEST DATA

Date: 12/14/73

Operator: Wynn Oil Company Lease: Largo Federal #5 A

Location: Sec. 13, T-27N, Rge 8W County: San Juan State: N.M.

Formation: Chacra Pool: Undesignated Chacra

Casing: 4.5 " Set @ 3966 ' Tubing: 1.275 " Set @ 3928

Pay Zone: 3894 ' To: 3902 ' Total Depth: 3960 PB 3938

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

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

Shut-in Pressure Casing: 1071 psig / 12 = 1083 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1071 psig / 12 = 1083 psia

Flowing Pressure: P : 103 psig / 12 = 115 psia

Working Pressure: P<sub>w</sub> : 502 psig / 12 = 514 psia

Temperature: T : 60 °F / 460 = 520 °Absolute

F<sub>pv</sub> (from tables) : 1.013 Gravity Est. 670 n 85

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

$$Q = \frac{12.365 \times 115 \times 1.000 \times .9463 \times 1.013}{1} = \frac{1363}{1} \text{ MCF/D}$$

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

$$A_{of} = \frac{1,172,889}{908,693} = 1.2907 = 1.2109$$

$$A_{of} = \frac{1650}{1} \text{ MCF/D}$$

Tested By: R. C. Dintelman

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



Geolectric, Inc.

B. H. Karpis  
Agent