

OPEN FLOW TEST DATA

Date: 4/19/72

Operator: Wynn & Brooks Lease: Federal J #1

Location: B Sec. 11, T-27N, Rge. 8W County: San Juan State: N.M.

Formation: Chacra Pool: Undesignated Chacra

Casing: 4.5 " Set @ 5432 ' Tubing: 1.25 " Set @ 5289

Pay Zone: 4621 ' To: 5391 ' Total Depth: 5432 ~~FTD~~ 5410

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 1018 psig / 12 = 1030 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1018 psig / 12 = 1030 psia

Flowing Pressure: P : 69 psig / 12 = 81 psia

Working Pressure: P_w : 394 psig / 12 = 406 psia

Temperature: T : 47 °F / 460 = 507 °Absolute

F_{pv} (from tables) : 1.008 Gravity Kat. .620 n 75

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

$$12.365 \times 81 \times 1.0127 \times .9837 \times 1.008 = 1006 \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{1.060,900} \right]^{.75} = 1.1840 = 1.1350$$

Aof = 1142 MCF/D

Tested By: Robert C. Dintelman

Witnessed By: _____

Calculated By
GeoElectric, Inc.

