

OPEN FLOW TEST DATA

Date: 4/19/72

Operator: Wynn & Brooks Lease: Federal E #3

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

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 4.5 " Set @ 5500 ' Tubing: 1.25 " Set @ 5340

Pay Zone: 4664 ' To: 5439 ' Total Depth: 5500 PBDT 5452

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

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

Shut-in Pressure Tubing: 996 psig / 12 = 1008 psia

Flowing Pressure: P : 105 psig / 12 = 117 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

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

F_{pv} (from tables) : 1.010 Gravity Est. .620 n 75

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

$$12.365 \times 117 \times 1.0127 \times .9837 \times 1.010$$

$$Q = \underline{\hspace{2cm}} = \underline{1455} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{1,016,064}{1,002,375} \right]^{(75)} = 1.0137 = 1.0102$$

Aof = 1470 MCF/D

Tested By: Robert C. Dintelman

Witnessed By: _____

Calculated By
Geolectric, Inc.

