

OPEN FLOW TEST DATA

Date: 4/15/72

Operator: Wynn & Brooks Lease: Federal L #1

Location: L Sec. 25, T-27N Rge. 8W County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 4.5 " Set @ 4796 KB ' Tubing: 1.25 " Set @ 4480

Pay Zone: 3158 ' To: 3159 ' Total Depth: 4796 KB-EBTD 4745

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: 1060 psig / 12 = 1072 psia

Flowing Pressure: P : 130 psig / 12 = 142 psia

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

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

F_{pv} (from tables) : 1.013 Gravity Est. .620 n 75

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

$$12.365 \times 142 \times 1.0127 \times .9837 \times 1.013$$

$$Q = \underline{\underline{1772}} \text{ MCF/D}$$

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

$$Aof = \left[\frac{1,149,184}{1,129,020} \right]^n = \frac{(75)}{1.0179} = 1.0133$$

$$Aof = \underline{\underline{1796}} \text{ MCF/D}$$

Tested By: Robert C. Dintelman

Witnessed By: _____

Calculated By
Geoelectric, Inc.

