

OPEN FLOW TEST DATA

Date: 4/15/72
 Operator: Wynn & Brooks Lease: Federal E #2
 Location: G Sec. 23, T-27N Rge-8W County: San Juan State: N.M.
 Formation: Mesa Verde Pool: Blanco Mesa Verde
 Casing: 4.5 " Set @ 4800 ' Tubing: 1.25 " Set @ 4537
 Pay Zone: 3177 ' To: 3179 ' Total Depth: 4800 IBTD 4752
 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: 1089 psig / 12 = 1101 psia

Flowing Pressure: P : 106 psig / 12 = 118 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

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

$$12.365 \times 118 \times 1.0127 \times .9837 \times 1.010 = \underline{1469} \text{ MCF/D}$$

$$\text{Open Flow} - Aof = Q$$

$$Aof = \left[\frac{P_c^2 - P_w^2}{1,198,277} \right]^{(75)} = 1.0116 \times 1.0086$$

$$Aof = \underline{1482} \text{ MCF/D}$$

Tested By: Robert C. Dintelman

Witnessed By: _____

Calculated By

GeoElectric, Inc.

