OPEN FLOW TEST DATA

Date: __November 30, 1977__

Operator: __William C. Russell__

Lease: __Hammond 41-A__

Location: __SE/4 Sec. 25, T27N-R8W__

County: __San Juan__ State: __NM__

Formation: __Blanco Mesa Verde__

Pool: __Blanco Mesa Verde__

Casing: __$4\frac{1}{2}$__ " Set @ _____ ' Tubing: __1½__ " Set @ __4470__

Pay Zone: __4420__ ' To: __4570__ ' Total Depth: __4675__

Choke Size: __3/4 TC__ " Choke Constant = C = __12.365__

Stimulation Method: __Sand-water Frac.__ Flow Through: Casing _____ Tubing __X__

Shut-in Pressure Casing: __1000__ psig ∤ 12 = __1012__ psia (Shut-in __8__ days)

Shut-in Pressure Tubing: __980__ psig ∤ 12 = __992__ psia

Flowing Pressure: P : __92__ psig ∤ 12 = __104__ psia

Working Pressure: P_w : __408__ psig ∤ 12 = __420__ psia

Temperature: T : __68__ °F ∤ 460 = __528__ °Absolute

F_{pv} (from tables) : __1.010__ Gravity __est. .670__ n __75__

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

$$Q = \qquad = \underline{\quad 1218 \quad} \text{MCF/D}$$

Open Flow - Aof = Q $\left\{ \dfrac{P_c^2}{P_c^2 - P_w^2} \right\}^n$

$$Aof = \left\{ \frac{1{,}024{,}144}{847{,}744} \right\}^n = 1.2081 - 1.1523$$

$$Aof = \underline{\qquad 1403 \qquad} \text{MCF/D}$$

Tested By: __Robert Dintelman__

Witnessed By: __W. C. Russell__