

OPEN FLOW TEST DATA

Date: November 29, 1977

Operator: William C. Russell Lease: Hammond 41-R

Location: NE/4 Sec. 25, T27N-R8W County: San Juan State: NM

Formation: Blanco Mesa Verde Pool: Blanco Mesa Verde

Casing: 4 1/2 " Set @ 4702 ' Tubing: 1 1/2 " Set @ 4550

Pay Zone: 4518 ' To: 4668 ' Total Depth: 4702

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

Stimulation Method: Sand-water Frac Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 800 psig / 12 = 812 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 800 psig / 12 = 812 psia

Flowing Pressure: P : 84 psig / 12 = 96 psia

Working Pressure: P_w : 269 psig / 12 = 281 psia

Temperature: T : 68 °F / 460 = 528 °Absolute

F_{pv} (from tables) : 1.010 Gravity est. 1.670 n 75

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

$$Q = \quad = \underline{1125} \text{ MCF/D}$$

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

$$Aof = \left[\frac{659,344}{580,383} \right]^n = 1.1360 - 1.0103$$

$$Aof = \underline{1136} \text{ MCF/D}$$

Tested By: Robert Dintelman

Witnessed By: W. C. Russell

William C. Russell

RECEIVED
DEC 9 1977