

# OPEN FLOW TEST DATA

Date: 3/27/80

Operator: C & E Operators, Inc. Lease: Fee #12

Location: Sec. 12, Twnship 30N, Rge-12W County: San Juan State: N.M.

Formation: Blanco MV Pool: Blanco

Casing: 4 1/2 " Set @ 4696 ' Tubing: 2-3/8 " Set @ 4444

Pay Zone: 4368 ' To: 4619 ' Total Depth: 4730 '

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

Stimulation Method: SWF Flow Through: Casing        Tubing X

Shut-in Pressure Casing: 1125 psig / 12 = 1137 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1100 psig / 12 = 1112 psia

Flowing Pressure: P : 110 psig / 12 = 122 psia

Working Pressure: P<sub>w</sub> : 475 psig / 12 = 487 psia

Temperature: T : 60 °F / 460 = 520 °Absolute

F<sub>pv</sub> (from tables) : 1.012 Gravity Est. 670 n 75

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

$$12.365 \times 122 \times 1.000 \times .9463 \times 1.012$$

$$Q =$$

$$= \underline{1444} \text{ MCF/D}$$

Open Flow - Aof = Q

$$\text{Aof} = \left[ \frac{P_c^2 - P_w^2}{1,292,769} \right]^n = 1.2247 - 1.1641$$

$$\text{Aof} = \underline{1680} \text{ MCF/D}$$



Tested By: \_\_\_\_\_

Witnessed By: \_\_\_\_\_

