

OPEN FLOW TEST DATA

Date: 3/12/80

Operator: C & E Operators, Inc.

Lease: Fee #5

Location: Sec-5, Twship- 30N, Rge - 11W

County: San Juan State: N.M.

Formation: Blanco MV

Pool: Blanco MV

Casing: 4 1/2 " Set @ 4798' Tubing: 2-3/8 " Set @ 4731

Pay Zone: 4350 ' To: 4783 ' Total Depth: 4870

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

Stimulation Method: SWF Flow Through: Casing Tubing X

Shut-in Pressure Casing: 1100 psig / 12 = 1112 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 950 psig / 12 = 962 psia

Flowing Pressure: P : 225 psig / 12 = 237 psia

Working Pressure: P_w : 1050 psig / 12 = 1062 psia

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

F_{pv} (from tables) : 1.027 Gravity Est. .670 n 75

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

$$12.365 \times 237 \times 1.000 \times .9463 \times 1.027$$

$$Q =$$

$$= \underline{2846} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2 - P_w^2}{1,236,544} \right]^{1/n} = \frac{1.1375 - 1.1014}{108,700}$$

Aof =

3134

MCF/D

Tested By: [Signature]

Witnessed By:

