

OPEN FLOW TEST DATA

Date: 3/12/80

Operator: C & E Operators, Inc. Lease: Fee #7

Location: Section 7, TwNship-30N, Rge -11W County: San Juan State: N.M.

Formation: Blanco MV Pool: Blanco MV

Casing: 4½" " Set @ 4728' ' Tubing: 2-3/8" " Set @ 4570'

Pay Zone: 4140' ' To: 4666' ' Total Depth: 4835'

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

Stimulation Method: SWF Flow Through: Casing Tubing X

Shut-in Pressure Casing: 1290 psig / 12 = 1302 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1290 psig / 12 = 1302 psia

Flowing Pressure: P : 425 psig / 12 = 437 psia

Working Pressure: P_w : 900 psig / 12 = 912 psia

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

F_{pv} (from tables) : 1.051 Gravity Est. 670 n 75

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

$$12.365 \times 437 \times 1.000 \times .9463 \times 1.051$$

$$Q = \underline{\hspace{2cm}} = \underline{5372} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\frac{1,695,204}{863,460}} = 1.9632 - 1.6610$$

$$Aof = \underline{\hspace{2cm}} \underline{8922} \text{ MCF/D}$$

Tested By: *[Signature]*

Witnessed By:

