

OPEN FLOW TEST DATA

Date: 3/12/80

Operator: C & E Operators, Inc. Lease: Fee #3A

Location: Sec-3, Twnship-30N, Range 11W County: San Juan State: N.M.

Formation: Blanco MV Pool: Blanco MV

Casing: 4 1/2" Set @ 4722' Tubing: 2-3/8" Set @ 4617

Pay Zone: 4176' To: 4684' Total Depth: 4805'

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

Stimulation Method: SWC Flow Through: Casing Tubing X

Shut-in Pressure Casing: 1160 psig / 12 = 1172 psia (Shut-in 8 days)

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

Flowing Pressure: P : 450 psig / 12 = 462 psia

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

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

F_{pv} (from tables) : 1.053 Gravity Est. 670 n 75

$$\text{Choke Volume} = Q = C \times P_c^2 \times F_t \times F_g \times F_{pv}$$

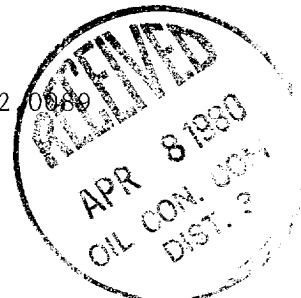
$$12.365 \times 462 \times 1.000 \times .9463 \times 1.053$$

$$Q = \underline{\hspace{2cm}} = \underline{5691} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{1,373,584} \right]^{1/n} = 2.5350 - 2.0080$$

$$Aof = \underline{11432} \text{ MCF/D}$$



Tested By:

Witnessed By: