

OPEN FLOW TEST DATA

Date: 5/6/79

Operator: C. & E. Operators, Inc.

Lease: Mary Shepherd #1

Location: Section 10, Township- 30N, Range- 11W

County: San Juan State: N.M.

Formation: Picture Cliff

Pool: Aztec

Casing: 4 1/2 " Set @ 2370

Tubing: 2-3/8 " Set @ 2233

Pay Zone: 2251 ' To: 2293 ' Total Depth: 2376

Choke Size: 3/4 " Choke Constant = C = 12.635

Stimulation Method: SWF Flow Through: Casing Tubing X

Shut-in Pressure Casing: 375 psig / 12 = 387 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 375 psig / 12 = 387 psia

Flowing Pressure: P : 60 psig / 12 = 72 psia

Working Pressure: P_w : 200 psig / 12 = 212 psia

Temperature: T : 78 °F / 460 = 538 °Absolute

F_{pv} (from tables) : 1.010 Gravity Est. .670 n 85

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

$$12.635 \times 72 \times .9831 \times .9463 \times 1.010$$

$$Q =$$

$$= \underline{835} \text{ MCF/D}$$

Open Flow - Aof = Q

$$\text{Aof} = \left[\frac{P_c^2 - P_w^2}{149,769} \right]^n = 1.4287 = 1.3534$$

$$\text{Aof} = \underline{1130} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

L.R. Cunningham

