

OPEN FLOW TEST DATA

Date: SEP. 29, 1969

Operator: V. F. [unclear] JR.

Lease: Acres # 1

Location: B/S EC. 31 - 221 - 118

County: SAN JUAN State: N.M.

Formation: PEROTA

Pool: ILCOAT

Casing: 4 1/2" Set @ 6235

Tubing: 2 1/8 CD Set @

Pay Zone: 5399 To: 6120

Total Depth:

Choke Size: 3/4 TC

Choke Constant = C = 12.315

Stimulation Method: Flow Through: Casing Tubing X

Shut-in Pressure Casing: 2114 psig / 12 = 2116 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 2114 psig / 12 = 2116 psia

Flowing Pressure: P : 516 psig / 12 = 633 psia

Working Pressure: P_w : 1352 psig / 12 = 1124 psia

Temperature: T : 113 °F / 460 = 549 °Absolute

F_{pv} (from tables) : 1.055 Gravity .693 n .75

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

$$Q = 12.315 \times 600 \times .9732 \times 1600 \times 1.055 = 7416 \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = 7416$$

$$Aof = \left[\frac{P_c^2 - P_w^2}{4.71 \times 10^{-8} \times (2.22 \times 10^8)} \right]^{.75} = 1.5543 \times 1.3403 = 10,315$$

$$Aof = 10,315 \text{ MCF/D}$$

Tested By: V. F. [unclear] JR.

Witnessed By:

