

OPEN FLOW TEST DATA

Date: December 1, 1977

Operator: William C. Russell Lease: 41 Chacra

Location: NE/4 Sec. 25, T27N-R8W County: San Juan State: NM

Formation: Undesignated Chacra Pool: Largo Chacra

Casing: 4 1/2 " Set @ 4500 ' Tubing: 2 3/8 " Set @

Pay Zone: 3101 ' To: 3111 ' Total Depth: PB - 3500'

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

Stimulation Method: None Flow Through: Casing Tubing x

Shut-in Pressure Casing: 700 psig / 12 = 712 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 700 psig / 12 = 712 psia

Flowing Pressure: P : 80 psig / 12 = 92 psia

Working Pressure: P_w : 262 psig / 12 = 274 psia

Temperature: T : 68 °F / 460 = 528 °Absolute

F_{pv} (from tables) : 1.010 Gravity est. .670 n 75

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

$$Q = \quad \quad \quad = \underline{\quad 1078 \quad} \text{ MCF/D}$$

$$\text{Open Flow} - Aof = Q$$

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{490,000}{421,356} \right]^n = 1.1629 - 1.1198$$

$$Aof = \underline{\quad 1207 \quad} \text{ MCF/D}$$

Tested By: Robert Dintelman

Witnessed By: W. C. Russell

RECEIVED
DEC 9 1977
DEC 13 1977
OIL COM. COM.
DIST. 3
William C. Russell