

OPEN FLOW TEST DATA

Date: October 4, 1963

Operator: J. E. Abraham

Lease: Taffee #2

Location: Sec 4 2-238-34

County: Sio Arriba State: New Mexico

Formation: Pietra Clara

Pool: Togwite

Casing: 4-1/2 " Set @ _____

Tubing: 2-3/8 " Set @ 3775

Pay Zone: 3790 ' To: 3820 '

Total Depth: 3845

Choke Size: .750

" Choke Constant = C = 12.3432

Stimulation Method: _____

Flow Through: Casing _____ Tubing 1

Shut-in Pressure Casing: 1033 psig / 12 = 1065 psia (Shut-in 1 days)

Shut-in Pressure Tubing: 1033 psig / 12 = 1065 psia

Flowing Pressure: P : 310 psig / 12 = 320 psia

Working Pressure: P_w : 301 psig / 12 = 303 psia

Temperature: T : 54 °F / 460 = 314 °Absolute

F_{pv} (from tables) : 1.630 Gravity 1.02 0.70 n 0.3

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

$$12.343 \times 330 \times 1.0098 \times .9063 \times 1.030$$

$$Q =$$

$$= \underline{4032} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^n$$

$$\left[\frac{1.135,275}{702,576} \right]^n = 1.4493 - 1.3707$$

Aof =

$$\underline{3327} \text{ MCF/D}$$

Tested By: John Shipley

Witnessed By: _____

Calculated by

B. H. Keyes