

OPEN FLOW TEST DATA

Date: Feb. 9, 1964

Operator: SMAR - ALAN OIL CO

Lease: Durr City # 4

Location: SE/4 Sec. 35 - 24N - 1W

County: Red Antenna State: NM

Formation: TORREON PUERTO

Pool: _____

Casing: 4 1/2 " Set @ 2752

Tubing: 2 3/4 " Set @ 2663

Pay Zone: 2662 To: 2684

Total Depth: 2660

Choke Size: 2734

Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 626 psig / 12 = 738 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 720 psig / 12 = 732 psia

Flowing Pressure: P : 143 psig / 12 = 155 psia

Working Pressure: P_w : 371 psig / 12 = 383 psia

Temperature: T : 47 °F / 460 = 507 °Absolute

F_{pv} (from tables) : 1.018 Gravity Est. 670 n 85

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

$$12.365 \times 195 \times 1.0127 \times .9463 \times 1.018$$

$$Q =$$

$$= \underline{1870} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{544,644}{397,955} \right]^n$$

$$= 1.3685 \div 1.3057$$

Aof =

$$\underline{2.442} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____



Oil Company Inc