

OPEN FLOW TEST DATA

Date: 1-23-64

Operator: Shar Alan Oil Co. Lease: Barl Federal # 2

Location: NE/4 3-23N-1W County: RA State: N M

Formation: Torreón Puerco Pool: Undesignated

Casing: 4½ " Set @ 2965 ' Tubing: 2 3/8 " Set @ 2758

Pay Zone: 2820 To: 2830 ' Total Depth: 2875

Choke Size: 2882 2768 2774 2752 3/4THC " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 695 psig / 12 = 707 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 695 psig / 12 = 707 psia

Flowing Pressure: P : 219 psig / 12 = 231 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 54 °F / 460 = 504 °Absolute

F_{pv} (from tables) : 1.029 Gravity .690 n .85

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

$$12.365 \times 231 \times 1.0058 \times .9325 \times 1.029 = \underline{2757} \text{ MCF/D}$$

Open Flow - Aof = Q

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

$$Aof = \left[\frac{499,849}{446,488} \right]^n = 1.1195 = 1.1007$$

Aof = 3035 MCF/D

Tested By: _____

Witnessed By: _____

GeoLectric, Inc.



B. H. Key