

OPEN FLOW TEST DATA

Date: 1-10-64

Operator: Shar Alan Oil Co. Lease: Jicarilla B-1 - 150

Location: NE/4 2-23N-2W County: RA State: N. M.

Formation: PC Pool: Undesignated

Casing: 4 1/2 " Set @ 3270 ' Tubing: 1 1/2 " Set @ 3120

Pay Zone: 3176 ' To: 3186 ' Total Depth: 3270

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

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 896 psig / 12 = 908 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 896 psig / 12 = 908 psia

Flowing Pressure: P : 107 psig / 12 = 119 psia

Working Pressure: P_w : 103 psig / 12 = 115 psia

Temperature: T : 41 °F / 460 = 501 °Absolute

F_{pv} (from tables) : 1.0121 Gravity Est. .630 n 85

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

$$12.365 \times 119 \times 1.0188 \times .9759 \times 1.012$$

$$Q = \underline{\underline{1481}} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{824,464}{810,303} \right]^n$$

$$= 1.0175 = 1.0144$$

Aof =

$$\underline{\underline{1502}} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

GeoElectric, Inc.

B. H. Hays