

OPEN FLOW TEST DATA

Date: 10-13-62

Operator: SHAR-ALAN Lease: JICARILLA G-#1

Location: NE/4 Sec 14-23N-2W County: RIO ARriba State: N.M.

Formation: PICTURED CLIFF Pool: _____

Casing: 4 1/2 " Set @ 3152 ' Tubing: 1 1/2 " Set @ 3032 '

Pay Zone: 3042 ' To: 3080 ' Total Depth: 3180 '

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 966 psig / 12 = 978 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 966 psig / 12 = 978 psia

Flowing Pressure: P : 240 psig / 12 = 252 psia

Working Pressure: P_w : 905 psig / 12 = 917 psia

Temperature: T : 36 °F / 460 = 496 °Absolute

F_{pv} (from tables) : 1.026 Gravity .620 Est n .85

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

$$Q = \frac{12.365 \times 252 \times 1.0239 \times .9817 \times 1.026}{n} = \frac{3214}{n} \text{ MCF/D}$$

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

$$Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{115,595} = \frac{956,484}{115,595} = 8.2744 = 5.0265$$

$$Aof = \frac{16.155}{n} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

GEOELECTRIC INC.

B. H. Kuyper