

OPEN FLOW TEST DATA

Date: 7/23/72

Operator: William C. Russell Lease: Graham #51

Location: Sec. 10, 27N, 8W County: San Juan State: N.M.

Formation: Chacra Pool: Largo Chacra

Casing: 4.5 " Set @ 4600 ' Tubing: " Set @

Pay Zone: 3109 ' To: 3141 ' Total Depth:

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

Stimulation Method: Flow Through: Casing X Tubing

Shut-in Pressure Casing: 1050 psig / 12 = 1062 psia (Shut-in 8 days)

Shut-in Pressure Tubing: psig / 12 = psia

Flowing Pressure: P : 132 psig / 12 = 144 psia

Working Pressure: P_w : psig / 12 = 178 psia

Temperature: T : 40 °F / 460 = 500 °Absolute

F_{pv} (from tables) : 1.017 Gravity .670 est. n 75

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

$$12.365 \times 144 \times 1.0198 \times .9463 \times 1.017 = 1747 \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{1,127,844} \right]^n = 1.0289 = 1.0215$$

$$Aof = 1785 \text{ MCF/D}$$

Tested By: R. C. Dintelman

Witnessed By:

Calculated by
GeoElectric, Inc. - B. H. L. - nt

