

OPEN FLOW TEST DATA

Date: 9/11/62

Operator: SHAF-ALAN

Lease: JICARILLA 4-F

Location: 13-23N-2W

County: Rio Arriba State: NM

Formation: _____

Pool: _____

Casing: 4 1/2 " Set @ 3130

Tubing: 1 1/2 " Set @ 3060

Pay Zone: 3048 To: 3072

Total Depth: 3160

Choke Size: 3/4 THC

Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing X Tubing

Shut-in Pressure Casing: 952 psig / 12 = 964 psia (Shut-in 8 days)

Shut-in Pressure Tubing: _____ psig / 12 = _____ psia

Flowing Pressure: P : 418 psig / 12 = 430 psia

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

Temperature: T : 50 °F / 460 = 510 °Absolute

F_{pv} (from tables) : 1.043 Gravity .620 Est n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = \frac{12.365}{12.365} \times 430 \times 1.0098 \times .9837 \times 1.043 = \frac{5509}{5509} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/n} = \left[\frac{929,296}{744,396} \right]^{1/n} = 1.2484 = 1.2075$$

$$Aof = \frac{6.652}{6.652} \text{ MCF/D}$$

Tested By: D W Stalder

Witnessed By: _____

GEOELECTRIC INC.

B. H. Keyes

