

OPEN FLOW TEST DATA

Date: 9-12-63

Operator: Shar Alan

Lease: Tanara F. A. # 1

Location: SW/4 33-24N-2W

County: BA State: N. H.

Formation: PC

Pool: S. Alamos

Casing: 4 1/2 " Set @ 3080

Tubing: 1 1/2 " Set @ 2950

Pay Zone: 2961 To: 2971

Total Depth: 3150

Choke Size: 3/4 THC

Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing _____ Tubing x

Shut-in Pressure Casing: 947 psig / 12 = 959 psia (Shut-in 0 days)

Shut-in Pressure Tubing: 946 psig / 12 = 958 psia

Flowing Pressure: P : 117 psig / 12 = 129 psia

Working Pressure: P_w : 571 psig / 12 = 583 psia

Temperature: T : 45 °F / 460 = 505 °Absolute

F_{pv} (from tables) : 1.012 Gravity .600 n .85



$$\text{Choke Volume} = Q = C \times P_c^2 \times F_t \times F_g \times F_{pv}$$

$$12.365 \times 129 \times 1.0147 \times .9837 \times 1.012$$

$$Q =$$

$$= 1611 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{919,681}{579,792} \right]^n$$

$$= 1.5862 = 1.4800$$

Aof =

$$2384 \text{ MCF/T}$$

Tested By: _____

Witnessed By: _____

GeoElectric, Inc.

[Signature]