

OPEN FLOW TEST DATA

Date: 9-21-63
 Operator: Shar Alan Lease: Jicarilla "I" #1
 Location: NE/4 Sec. 23-23N-2W County: Sandoval State: N. Mex.
 Formation: PC Pool: _____
 Casing: 4 1/2 " Set @ 3117 ' Tubing: 1 1/2 " Set @ 3000 '
 Pay Zone: 2994 ' To: 3024 ' Total Depth: 3125 '
 Choke Size: 3/4 T70 " Choke Constant = C = 12.365
 Flow Through: Casing X Tubing _____

Stimulation Method: _____

Shut-in Pressure Casing: 833 psig / 12 = 847 psia (Shut-in 8 days)
 Shut-in Pressure Tubing: 834 psig / 12 = 846 psia
 Flowing Pressure: P : 112 psig / 12 = 124 psia
 Working Pressure: P_w : 112 psig / 12 = 124 psia
 Temperature: T : 47 °F / 460 = 507 °Absolute
 F_{pv} (from tables) : 1.012 Gravity .620 n .85



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

$$12.365 \times 124 \times 1.0127 \times .9837 \times 1.012$$

$$= 1545 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{717.409}{702.033} \right]^n$$

$$= 1.0219 - 1.0185$$

Aof =

$$1574 \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

Geoelectric, Inc.

[Signature]