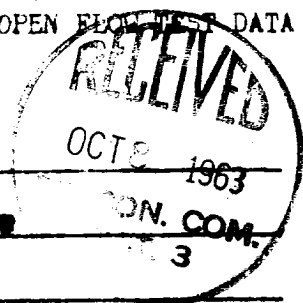


OPEN FLOW TEST DATA



Operator: SWAR ALAM Date: 6-27-63
 Location: NW/4 SEC 14 T2N 2E Lease: JIGARILLA #4
 Formation: fs County: EL PASO State: N.M.
 Pool: INDIVIDUATED
 Casing: 4 1/2 " Set @ 3046 ' Tubing: 1 1/2 " Set @ 3027
 Pay Zone: 2957 ' To: 62 ' Total Depth: 3075
 Choke Size: 1 1/2 " Choke Constant = C = 12.303

Stimulation Method: _____ Flow Through: Casing _____ Tubing 2

Shut-in Pressure Casing: 930 psig / 12 = _____ psia (Shut-in 8 days)

Shut-in Pressure Tubing: 930 psig / 12 = _____ psia

Flowing Pressure: P : 126 psig / 12 = _____ psia

Working Pressure: P_w : 542 psig / 12 = _____ psia

Temperature: T : 43 °F / 460 = _____ °Absolute

F_{pv} (from tables) : 1.013 Gravity 887.640 n 0.85

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

$$942 \times 126 \times 1.0168 \times .9682 \times 1.013$$

$$Q = \underline{\underline{1297}} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^n = \left[\frac{987.361 - 542^2}{987.361} \right]^n = 1.5388 - 1.4344$$

$$Aof = \underline{\underline{1860}} \text{ MCF/D}$$

Tested By: _____

Witnessed By: _____

GEOTECHNICAL, INC.