

OPEN FLOW TEST DATA

Date: August 2, 1962

Lease: Grass Field No. 23

County: Rio Arriba State: N. M.

Pool: Undesignated

Operator: Star-Alan

Location: Sec. 28, T. 24 N., R. 1 W.

Formation: P C

Casing: 4 1/2 " Set @ 3150

Tubing: 1 " Set @ -

Pay Zone: 3038 To: 3172

Total Depth: 3175

Choke Size: 3/4 BM

Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing x Tubing _____

Shut-in Pressure Casing: 814 psig / 12 = 826 psia (Shut-in 8 days)

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

Flowing Pressure: P : 345 psig / 12 = 357 psia

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

Temperature: T : 52 °F / 460 = 512 °Absolute

F_{pv} (from tables) : 1.035 Gravity .620 Est n 85

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

$$14.1605 \times 357 \times 1.0078 \times .9837 \times 1.035 = \underline{5187} \text{ MCF/D}$$

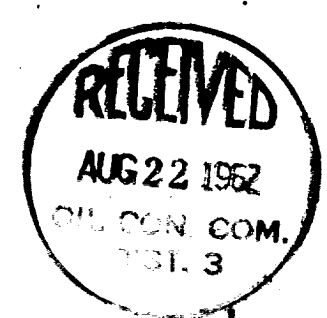
Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{1/2} \times \left[\frac{688,276}{554,827} \right]^{1/2} = 1.1921$$

$$Aof = \underline{6,183} \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____



GeoElectric, Inc.
[Signature]