

OPEN FLOW TEST DATA

Date: August 28, 1962

Operator: Shar-Alan

Lease: Jubaria 4-A

Location: NW 1 - 24 N - 2 W

County: Rio Arriba State: N. Mex.

Formation: _____

Pool: _____

Casing: 4 1/2 " Set @ _____ ' Tubing: 1 " Set @ 3240

Pay Zone: 3132 ' To: 3012 ' Total Depth: 3225

Choke Size: 3/4 THC " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 872 psig / 12 = 834 psia (Shut-in 8 days)

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

Flowing Pressure: P : 98 psig / 12 = 110 psia

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

Temperature: T : 48 °F / 460 = 508 °Absolute

F_{pv} (from tables) : 1.011 Gravity .620 Est. n 85

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

$$12.365 \times 110 \times \frac{Q}{1.0117 \times .9837 \times 1.011} = \frac{1249}{\text{MCF/D}}$$

Open Flow - Aof = Q

Acf =

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.5} = \left[\frac{884^2 - 110^2}{884^2} \right]^{.5}$$

$$= \frac{751,456}{769,356} = 1.0132$$

Aof =

$$1387 \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____

GeoLectra, Inc.

[Signature]