

OPEN FLOW TEST DATA

Date: August 3, 1962

Operator: Shar-Alan

Lease: Crane Fed. #4

Location: SW 1/4 Sec. 32, T. 24 N., 1 W

County: Elk Arriba State: N. M.

Formation: F C

Pool: Undesignated

Casing: 4 1/2 " Set @ 3356

Tubing: 1 " Set @ -

Pay Zone: 3306 To: 3326

Total Depth: 3420

Choke Size: 3/4 THC

" Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing x Tubing _____

Shut-in Pressure Casing: 628 psig / 12 = 640 psia (Shut-in 8 days)

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

Flowing Pressure: P : 154 psig / 12 = 166 psia

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

Temperature: T : 59 °F / 460 = 519 °Absolute

F_{pv} (from tables) : 1.015 Gravity .620 Est n 85

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

$$12.365 \times 166 \times 1.0010 \times .9837 \times 1.015$$

$$= \frac{2052}{n} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right] \times \left[\frac{409,607}{382,044} \right] \times \left[\frac{2177}{2177} \right]$$

$$= 1.0610$$

Aof =

2177

MCF/D



Tested By: D. W. Stiles

Witnessed By: _____

Gelectric, Inc.