

PLAN FLOW TEST AT

Date: SEPTEMBER 14, 1959

Operator: CLARK & COWDEN License: FEDERAL 11 - 2

Location: SE/4 11 - 25N - 3W Locality: RIO ARRIBA State: N.MEX.

Formation: P.C. Well: TAPACITO

Casing: 4 1/2 Set: 3988 Tubing: 2 Set: 3900

Pay Zone: 3936 To: 3968 Total Depth: 4000

Choke Size: 3/4 Gas Constant = 14.1605

Stimulation Method: S.W.F. Flow Through: Casing Tubing X

Shut-in Pressure Casing: 992 psig / 12 = 1004 psia (Shut-in 7 days)

Shut-in Pressure Tubing: psig / 12 = psia

Flowing Pressure: P_f : 205 psig / 12 = 217 psia

Working Pressure: P_w : 449 psig / 12 = 461 psia

Temperature: T : 70 °F / 460 = 530 °Absolute

F_{pv} (from tables) : 1.022 Gravity .670 Est. n 85

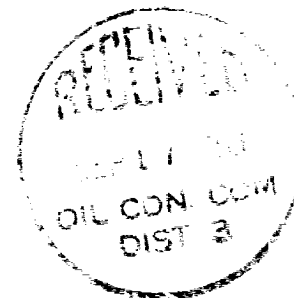
$$\text{Choke Volume} = Q = \frac{Q \times P_t \times 14.7 \times F_g \times F_{pv}}{14.1605 \times 217 \times .9905 \times .9463 \times 1.022} = \underline{2,945} \text{ SCF/D}$$

Open Flow - Aof = Q

$$\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1004^2}{1004^2 - 461^2}$$

$$\text{Aof} = \frac{1,008,016}{795,495} = 1.2229$$

$$\text{Aof} = \underline{3,732}$$



Tested By: GEOLLECTRIC, INC.
D.W. STILES

Witnessed By: