

OPEN FLOW TEST DATA

Date: AUGUST 15, 1957

Operator: CLARK & GOWDEN

Lease: FEDERAL 11-1

Location: B 11 - 25N - 3W

County: RIO ARriba State: N. M.

Formation: PICTURED CLIFFS

Pool: TAPACITO

Casing: 5 1/2 " Set W 3845 '

Tubing: " Set G '

Pay Zone: 3798 ' To: 3824 '

Total Depth: 383 3855 '

Choke Size: 3/4 " " "

Choke Constant = C = 14.1605

Stimulation Method: SWE

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 850 psig / 12 = 862 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 849 psig / 12 = 861 psia

Flowing Pressure: P : 192 psig / 12 = 204 psia

Working Pressure: P_w : 222 psig / 12 = 234 psia

Temperature: T : 60 °F / 460 = 520 ° Absolute

F_{pv} (from tables) : 1.088 Gravity .630 Est n .85

$$\text{Choke Volume} = Q = \frac{14.1605 \times 234 \times 1.000 \times .9759 \times 1.088}{C \times P_t \times F_t \times F_g \times F_{pv}}$$

$$= \frac{3518}{\text{MCF/D}}$$

Open Flow = Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

Aof =

$$\left[\frac{743,044}{688,288} \right]^n$$

1.0673

Aof =

3755

MCF/D

Tested By: GEOL ECTRIC, INC.

Witnessed By: BRADLEY M. KEYES

B. H. KEYES

B. H. Keyes

