

OPEN FLOW TEST DATA

Date: 4-12-62

Operator: Shaw-Allen

Lease: Hamington Fed #3

Location: NE 1/4 22-24N-1W

County: Rio Arriba State: NM

Formation: Pistone Clay

Pool: _____

Casing: 4 1/2 " Set @ 3036

Tubing: 1 1/2 " Set @ 3030

Pay Zone: 3036 To: 3034

Total Depth: 3031

Choke Size: 1 1/4 TWD

Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 777 ✓ psig / 12 = 789 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 777 ✓ psig / 12 = 789 psia

Flowing Pressure: P : 527 psig / 12 = 539 psia

Working Pressure: P_w : 522 psig / 12 = 540 psia

Temperature: T : 62 °F / 460 = 522 °Absolute

F_{pv} (from tables) : 1.061 Gravity .660 Est n .85

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

$$12.365 \times 540 \times .9981 \times .9535 \times 1.061 = \underline{6742} \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

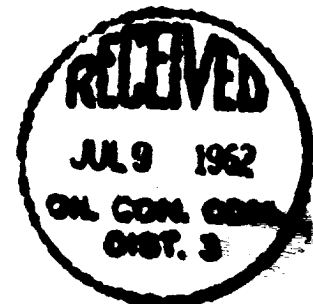
Aof =

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{622,521}{330,921} = 1.8812 = 1.7110$$

$$11,536 \text{ MCF/D}$$

(85)

$$1.8812 = 1.7110$$



Tested By: Donald Burton

Witnessed By: Steve Meyer

Jack A. Cole