

# OPEN FLOW TEST DATA

OLD WELL WORKED OVER

Date: May 31, 1956

Operator: El Paso Natural Gas Company

Lease: Kelly # 1

Location: 1650'N, 990'E, Sec. 35-30-10

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Aztec Pictured Cliff

Casing: 5 1/2 " Set @ 2834 '

Tubing: 1 " Set @ 2633 '

Pay Zone: 2584 ' To: 2650 '

Total Depth: c/o - 2834 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing X Tubing       

Shut-In Pressure Casing: 529 psig / 12 = 541 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 529 psig / 12 = 541 psia

Flowing Pressure: P : 51 psig / 12 = 63 psia

Working Pressure: P<sub>w</sub> : 53 psig / 12 = 65 psia

Temperature: T : 68 °F / 460 = 548 ° Absolute

F<sub>pv</sub> (from tables) : 1.008 Gravity 0.680 n 0.85

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

$$= 14.1605 \times 63 \times .9924 \times .9393 \times \frac{1}{1.008} = 838 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = 838$$

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

$$\left[ \frac{292,681}{288,456} \right]^n$$

$$= Q(1.0146)^{.85} = Q(1.0124)$$

$$Aof =$$

$$848$$

$$\text{MCF/D}$$

Tested By: D. C. Adams

Witnessed By:                     



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