

OPEN FLOW TEST DATA

Date: July 11, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 30-4 # 13

Location: 800'S, 890'W, Sec. 15-30-4

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: East Blanco Pictured Cliff

Casing: 5 1/2 " Set @ 4505

Tubing: 2 1/2 " Set 4426

Pay Zone: 4170 To: 4446

Total Depth: c/o - 4455

Choke Size: 0.75 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 960 psig / 12 = 972 psia (Shut-in 19 days)

Shut-In Pressure Tubing: 959 psig / 12 = 971 psia

Flowing Pressure: P : 45 psig / 12 = 57 psia

Working Pressure: P_w : 288 psig / 12 = 300 psia

Temperature: T : 78 °F / 460 = 538 ° Absolute

F_{pv} (from tables) : 1.002 Gravity .597 n .85

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

$$= 14.1605 \times 57 \times .9831 \times \frac{1.004}{1.002} \times 1.002 = 798 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = 798 \left[\frac{944,784}{854,784} \right]^n = (1.1053)^{.85} \times 798 = 1.0888 \times 798$$

$$Aof = 869 \text{ MCF/D}$$

Tested By: K. C. McBride and R. A. Ullrich

Witnessed By: _____



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