

OPEN FLOW TEST DATA

Date: July 9, 1956

Operator: El Paso Natural Gas Company

Lease: Florance # 5-D

Location: 1000'S, 1180'E, Sec. 18-27-8

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: South Blanco

Casing: 5 1/2 " Set 2437

Tubing: 1 1/2 " Set 2329

Pay Zone: 2348 To: 2404

Total Depth: 2437 - c/o - 2415

Choke Size: .750

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 781 psig / 12 = 793 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 780 psig / 12 = 792 psia

Flowing Pressure: P : 171 psig / 12 = 183 psia

Working Pressure: P_w : 177 psig / 12 = 189 psia

Temperature: T : 77 °F / 460 = 537 ° Absolute

γ_g (from tables) : 1.015 Gravity .636 n .85

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

$$= 14.1605 \times 183 \times .9840 \times .9721 \times \frac{1}{1.015} = 2,516 \text{ MCF/D}$$

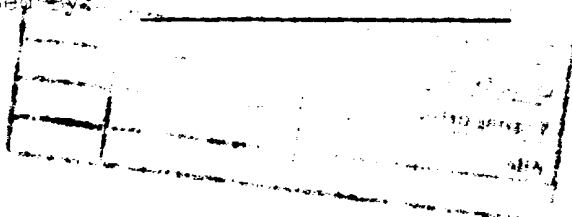
$$\text{Open Flow} = \text{Def} = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$\text{Def} = 2516 \quad \left[\frac{628,849}{593,128} \right]^n = (1.0602)^{.85} 2516 = 1.0509 \times 2516$$

$$\text{Def} = 2,644 \text{ MCF/D}$$

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

Witnessed By: _____



L. D. Galloway

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