

OPEN FLOW TEST DATA

Date: June 13, 1956

Operator: El Paso Natural Gas Company

Lease: Lackey # 5-B

Location: 990'S, 1050'E, Sec. 20-28-9

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Aztec Pictured Cliff

Casing: 5 $\frac{1}{2}$ " Set 2210 '

Tubing: 1 $\frac{1}{4}$ " Set 2097 '

Pay Zone: 2106 ' To: 2143 '

Total Depth: 2210 - c/o - 2160 '

Choke Size: 3/4 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 695 psig $\div 12 =$ 707 psia (Shut-in 10 days)

Shut-In Pressure Tubing: 695 psig $\div 12 =$ 707 psia

Flowing Pressure: P : 375 psig $\div 12 =$ 387 psia

Working Pressure: P_w : 392 psig $\div 12 =$ 404 psia

Temperature: T : 77 °F $\div 460 =$ 537 ° absolute

F_{pv} (from tables) : 1.044 Gravity .710 n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = 14.1605 \times 387 \times .9840 \times .9193 \times \frac{1}{1.044} = 5175 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 5175

$$\left[\frac{499,849}{336,633} \right]^n$$

$$= (1.4848)^{.85} 5175 = 1.399 \times 5175$$

Aof =

7,240

MCF/D

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

Witnessed By:



L. N. Galloway

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