

OPEN FLOW TEST DATA

Date: June 25, 1956

Operator: El Paso Natural Gas Company Lease: Lackey # 6-B

Location: 990'N, 560'W, Sec. 21-28-9 County: San Juan State: N.M.

Formation: Pictured Cliff Pool: Wildcat

Casing: 5 1/2 " Set @ 2353 ' Tubing: 1 1/2 " Set @ 2266 '

Pay Zone: 2273 ' To: 2310 ' Total Depth: 2320 - c/o - 2320 '

Choke Size: .750 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 721 psig / 12 = 733 psia (Shut-in 15 days)

Shut-In Pressure Tubing: 721 psig / 12 = 733 psia

Flowing Pressure: P : 186 psig / 12 = 198 psia

Working Pressure: P_w : 203 psig / 12 = 215 psia

Temperature: T : 76 °F = 536 ° Absolute

F_{pv} (from tables) : 1.021 Gravity .710 n .85

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

$$Q = 14.1605 \times 198 \times .9850 \times .9199 \times 1.021 = 2592 \text{ MCF/D}$$

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

$$Aof = 2592 \left[\frac{537,289}{491,064} \right]^n = (1.094)^{.85} 2592 = 1.0794 \times 2592$$

$$Aof = 2,798 \text{ MCF/D}$$

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

Witnessed By: _____



L. D. Galloway
L. D. Galloway

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