

OPEN FLOW TEST DATA

Date: February 16, 1956

Operator: El Paso Natural Gas Company Lease: Huerfano Unit # 48

Location: 1650'S, 1650'W, Sec. 9, T26N, R9W County: San Juan State: N.M.

Formation: Pictured Cliff Pool: Ballard

Casing: 7 " Set @ 2194 ' Tubing: 1 1/4 " Set @ 2275 '

Pay Zone: 2194 ' To: 2287 ' Total Depth: 2287 '

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

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

Shut-In Pressure Casing: 634 psig / 12 = 646 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 634 psig / 12 = 646 psia

Flowing Pressure: P : 15 psig / 12 = 27 psia

Working Pressure: P_w : 15 psig / 12 = 27 psia

Temperature: T : 56 °F / 460 = 516 ° Absolute

F_{pv} (from tables) : 1.010 Gravity .650 Est. n .85

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

$$Q = 14.1605 \times 27 \times 1.0039 \times 1.010 = 372 \text{ MCF/D}$$

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

$$A_{of} = 372 \left[\frac{417,316}{416,587} \right]^n = 372 (1.00174)^{.85} = 372 \times 1.00148$$

$$A_{of} = 373 \text{ MCF/D}$$

Tested By: D. W. Mitchell

Witnessed By:



L. D. Galloway
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