

OPEN FLOW TEST DATA

Date: February 29, 1956

Operator: El Paso Natural Gas Company Lease: Huerfano Unit # 49

Location: 1650'N, 990'E, Sec. 5, T26N, R9W County: San Juan State: N.M.

Formation: Pictured Cliff Pool: Wildcat

Casing: 7 " Set @ 2247 ' Tubing: 1 1/4 " Set @ 2244 '

Pay Zone: 2247 ' To: 2310 ' Total Depth: 2310 '

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

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

Shut-In Pressure Casing: 651 psig / 12 = 663 psia (Shut-in 12 days)

Shut-In Pressure Tubing: 651 psig / 12 = 663 psia

Flowing Pressure: P : 17 psig / 12 = 29 psia

Working Pressure: P_w : 17 psig / 12 = 29 psia

Temperature: T : 61 °F / 460 = 521 ° Absolute

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

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

$$Q = 14.1605 \times 29 \times .9990 \times .9608 \times \frac{1}{1.010} = \underline{398} \text{ MCF/D}$$

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

$$Aof = 398 \left[\frac{439,569}{438,728} \right]^n = 398(1.0019)^{.85} = 398 \times 1.0016$$

$$Aof = \underline{399} \text{ MCF/D}$$

Tested By: D. W. Mitchell

Witnessed By:



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