

OPEN FLOW TEST DATA

Date: February 16, 1956

Lease: Huerfano Unit # 50

County: San Juan State: N.M.

Pool: Ballard

Operator: El Paso Natural Gas Company

Location: 1650'N, 990'E, Sec. 22, T26N, R9W

Formation: Pictured Cliff

Casing: 7 " Set @ 1965 ' To: 2025 ' Tubing: 1 1/2 " Set @ 2002 ' Total Depth: 2025 ' Choke Constant = C = 14.1605

Pay Zone: 1965 ' To: 2025 ' Choke Size: 3/4 " Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing

Shut-In Pressure Casing: 622 psig / 12 = 634 psia (Shut-in 16 days)

Shut-In Pressure Tubing: 622 psig / 12 = 634 psia

Flowing Pressure: P : 432 psig / 12 = 444 psia

Working Pressure: P_w : 436 psig / 12 = 448 psia

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

F_{pv} (from tables) : 1.046 Gravity 650 Est. n .85

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

$$Q = 14.1605 \times 444 \times .9990 \times .9608 \times 1.046 = 6312 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = 6312$$

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

$$\left[\frac{401,956}{201,252} \right]^n$$

$$= 6312(1.997)^{.85} = 6312 \times 1.80$$

$$Aof =$$

$$11,362$$

$$\text{MCF/D}$$

Tested By: D. W. Mitchell

Witnessed By:



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