

OPEN FLOW TEST DATA

Date: February 24, 1956
 Operator: El Paso Natural Gas Company Lease: Huerfano Unit # 47
 Location: 990'N, 990'E, Sec. 9, T26N, R9W County: San Juan State: N.M.
 Formation: Pictured Cliff Pool: Ballard
 Casing: 7 " Set @ 2083 ' Tubing: 1 1/2 " Set @ 2106 '
 Pay Zone: 2083 ' To: 2115 ' Total Depth: 2115 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing
 Shut-In Pressure Casing: 621 psig / 12 = 633 psia (Shut-in 10 days)
 Shut-In Pressure Tubing: 621 psig / 12 = 633 psia
 Flowing Pressure: P : 147 psig / 12 = 159 psia
 Working Pressure: P_w : 148 psig / 12 = 160 psia
 Temperature: T : 55 °F / 460 = 515 ° Absolute
 F_{pv} (from tables) : 1.014 Gravity .650 est. n .85

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

$$Q = 14.1605 \times 159 \times 1.0048 \times .9608 \times \frac{1}{1.014} = 2,204 \text{ MCF/D}$$

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

$$Aof = 2,204$$

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

$$= 2204 (1.0683)^{.85} = 2204 \times 1.0577$$

$$Aof = 2,331 \text{ MCF/D}$$

Tested By: D. W. Mitchell

Witnessed By:



L. D. Galloway

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