

OPEN FLOW TEST DATA

Date: March 7, 1956
 Operator: El Paso Natural Gas Company Lease: Morris # 6-A
 Location: 1550'S, 990'W, S21, T30N, R11W County: San Juan State: N.M.
 Formation: Pictured Cliff Pool: Aztec
 Casing: 7 " Set 2152 ' Tubing: 1 1/2 " Set 2179 '
 Pay Zone: 2152 ' To: 2197 ' Total Depth: 2197 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing _____
 Shut-In Pressure Casing: 611 psig / 12 = 623 psia (Shut-in 9 days)
 Shut-In Pressure Tubing: 611 psig / 12 = 623 psia
 Flowing Pressure: P : 46 psig / 12 = 58 psia
 Working Pressure: P_w : 46 psig / 12 = 58 psia
 Temperature: T : 55 °F / 460 = 515 ° Absolute
 F_{pV} (from tables) : 1.010 Gravity .650 est. n .85

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

$$= 14.1605 \times 58 \times 1.0048 \times .9608 \times \frac{1.010}{1.010} = 801 \text{ MCF/D}$$

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

$$Aof = 801 \left[\frac{388,129}{384,765} \right]^n = 801(1.0009)^{.85} = 1.0008 \times 801$$

$$Aof = 802 \text{ MCF/D}$$

Tested By: D. W. Mitchell

Witnessed By: _____



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