

OPEN FLOW TEST DATA

Date: May 29, 1956

Operator: El Paso Natural Gas Company Lease: Herrin # 1

Location: 1750'S, 990'W, Sec. 13-29-10 County: San Juan State: N.M.

Formation: Pictured Cliff Pool: Aztec Pictured Cliff

Casing: 7 " Set @ 2270 ' Tubing: 1 " Set @ 2300 '
 Pay Zone: 2266 ' To: 2304 ' 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: 598 psig / 12 = 610 psia (Shut-in 10 days)
 Shut-In Pressure Tubing: 598 psig / 12 = 610 psia
 Flowing Pressure: P : 127 psig / 12 = 139 psia
 Working Pressure: P_w : 129 psig / 12 = 141 psia
 Temperature: T : 76 °F / 460 = 536 ° Absolute
 F_{pv} (from tables) : 1.012 Gravity 0.665 n 0.85

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

$$Q = 139 \times 14.1605 \times .9850 \times .9498 \times \frac{1}{1.012} = \underline{1864} \text{ MCF/D}$$

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

$$Aof = 1864 \left[\frac{372,100}{352,219} \right]^n = (1.0564)^{.85} Q = 1.0478 Q$$

$$Aof = \underline{1953} \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By: _____



L. D. Galloway
L. D. Galloway

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