

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 8, 1957

Operator El Paso Natural Gas		Well Name McCulley # 2 (M)	
Location 1850'S, 1090'W, Sec. 14-28-9		County San Juan	State New Mexico
Formation Mesa Verde		Blanco Mesa Verde	
Casing Diameter 7 5/8	Set At: Feet 51 4691	Tubing Diameter 2" 1 1/2	Set At: Feet 2273 4610 -
Perforation Depth 4512	To 4630	Total Depth 4690 - c/o - 4650	Flow Through Tubing X
Stimulation Method Sand Water Frac		Flow Through Casing	

Choke Size, inches 0.750	Choke Constant, C 12.365	Shut-in Pressure, Casing, PSIG P.C. - 745	Shut-in Pressure, Tubing, PSIG M.V. 1023
Flowing Pressure, P, PSIG 312	Flowing Pressure, Pw, PSIA 324	Working Pressure, Pw, PSIG Calculated	Gravity 660
Temperature, T, F 70	Friction Factor, F, F ₂₀ 0.750	Eqv. From Tables 1.032	

Final Pictured Cliff shut-in pressure - 746 psig.

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$C = 12.365 \times 324 \times .9905 \times .9535 \times 1.032$$

3905

MCF/D

$$\text{OPEN FLOW } A_{cf} = Q \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_a^2} \right)^n$$

$$A_{cf} = \left(\frac{1,071,225}{700,344} \right)^{.75} \times 3905 = 1.3755 \times 3905$$

Acf 5371

MCF/D

Tom Grant

Vernon L. Goff E. C. Arnold (Oil Conservation Commission)

cc: E. J. Coel, Jr. (6)

L. D. Galloway
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