

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 8-24-70

Operator El Paso Natural Gas Co.		Lease San Juan 29-7 U. No. 89 CWVO	
Location 1650 S, 1450 W, S 7, T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5484	Tubing: Diameter 2.375	Set At: Feet 5368
Pay Zone: From 4760	To 5390	Total Depth: 5484	Shut In 8-17-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 831	+ 12 = PSIA 843	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 726	+ 12 = PSIA 738	
Flowing Pressure: P PSIG 320	+ 12 = PSIA 332		Working Pressure: P <sub>w</sub> PSIG 733	+ 12 = PSIA 745	
Temperature: T = 75 °F	F <sub>t</sub> = .9859	n = .75	F <sub>pv</sub> (From Tables) 1.035	Gravity .690	F <sub>g</sub> = .9325

CHOKE VOLUME - Q - C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

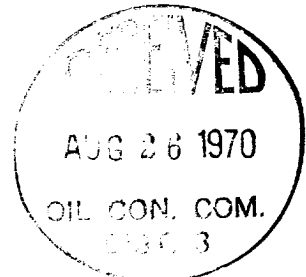
$$Q = 12.365 \times 332 \times .9859 \times .9325 \times 1.035 = \underline{\quad 3906 \quad} \text{ MCF/D}$$

$$\text{OPEN FLOW} = A_{of} = Q \left( \frac{P_c^2}{P_c^2 P_w^2} \right)^n$$

Note: Well blew light spray of distillate throughout test.

$$A_{of} = \left( \frac{710649}{155624} \right)^n = 3906 (4.5664)^{.75} = 3906 (3.1238)$$

$$A_{of} = \underline{\quad 12,202 \quad} \text{ MCF/D}$$



TESTED BY J. Goodwin & R. Fielder

WITNESSED BY \_\_\_\_\_

*H. L. Kendrick*  
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