

# EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

DATE 5-18-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 79	
Location 850' N, 1500' E, S 27, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7741	Tubing: Diameter 1.990	Set At: Feet 7660
Pay Zone: From 7454	To 7676	Total Depth: 7741	Shut In 5-7-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2535	+ 12 = PSIA 2547	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2604	+ 12 = PSIA 2616	
Flowing Pressure: P PSIG 303	+ 12 = PSIA 315	Working Pressure: P <sub>w</sub> PSIG 576	+ 12 = PSIA 588		
Temperature: T = 68 °F F <sub>t</sub> = .9924	n = .75	F <sub>pv</sub> (From Tables) 1.029	Gravity .642	F <sub>g</sub> = .9682	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 315 \times .9924 \times .9682 \times 1.029 = \underline{3851} \text{ MCF/D}$$

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

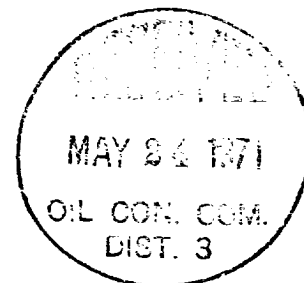
Well produced fine mist throughout test. H<sub>2</sub>O

$$Aof = \left( \frac{6843456}{6497712} \right)^n = (3851)(1.0532)^{.75} = (1.0396)(3851)$$

$$Aof = \underline{4003} \text{ MCF/D}$$

TESTED BY B. J. Broughton

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



*H. L. Kendrick*  
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