

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE August 23, 1968

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 44	
Location 1825'N, 1190'E, Sec. 18, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7974	Tubing: Diameter 2.375	Set At: Feet 7658
Pay Zone: From 7702	To 7928	Total Depth: 7974	Shut In 8-12-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2470	PSIG	+ 12 = PSIA 2482	Days Shut-In 11	Shut-In Pressure, Tubing 2481	PSIG
Flowing Pressure: P 375	PSIG	+ 12 = PSIA 387		Working Pressure: P <sub>w</sub> 1289	PSIG
Temperature: T = 90°F		n = .75		F <sub>pv</sub> (From Tables) 1.030	Gravity .654
	F <sub>t</sub> = .9723				F <sub>g</sub> = .9608

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

$$Q = (12.365)(387)(.9723)(.9608)(1.030) = 4604 \text{ MCF/D}$$

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

$$Aof = \left( \frac{6215049}{4522448} \right)^n = (4604)(1.3742)^{.75} = (4604)(1.2692)$$

Note: The well produced slugs of water and distillate throughout the test period.

$$Aof = 5843 \text{ MCF/D}$$

TESTED BY Dannie RobertsCalculated by G. A. Lippman

WITNESSED BY

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