

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 10, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-4 Unit No. 29	
Location 990'S, 790'W, Sec. 31, T-28-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8651	Tubing: Diameter 2.375	Set At: Feet 8374
Pay Zone: From 8404	To 8600	Total Depth: 8651	Shut In 9-30-67
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, 2525	PSIG	+ 12 = PSIA 2537	Days Shut-In 10	Shut-In Pressure, Tubing 2525	PSIG
				+ 12 = PSIA 2537	
Flowing Pressure: P 201	PSIG	+ 12 = PSIA 213		Working Pressure: P _w 763	PSIG
				+ 12 = PSIA 775	
Temperature: T = 72 °F	F _i = .9887	n = .75		F _{pv} (From Tables) 1.020	Gravity .655
					F _g = .9571

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

$$Q = (12.365)(213)(.9887)(.9571)(1.020) = 2542 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6436369}{5835744} \right)^n = (2542)(1.1029)^{.75} = (2542)(1.0762)$$

NOTE: Blew medium fog of water and dist. for entire test.

$$Aof = 2736 \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED
WITNESSED BY H. E. McAnally

H. L. Kendrick
