

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 21, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 67	
Location 1650'S, 100'W, Sec. 21, T-28-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8010	Tubing: Diameter 2.375	Set At: Feet 7706
Pay Zone: From 7720	To 7922	Total Depth: 8010	Shut In 6-8-67
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, 2584	PSIG	+ 12 = PSIA 2596	Days Shut-In 13	Shut-In Pressure, Tubing 2598	PSIG
					+ 12 = PSIA 2610
Flowing Pressure: P 411	PSIG	+ 12 = PSIA 423		Working Pressure: P _w 1300	PSIG
					+ 12 = PSIA 1312
Temperature: T = 75 °F		n =		F _{pv} (From Tables) 1.030	Gravity .600
	F _t = .9859		.75		F _g = 1.0000

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

$$Q = (12.365)(423)(.9859)(1.0000)(1.030) = \underline{5311} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6812100}{5090756} \right)^n = (5311)(1.3381)^{.75} = (5311)(1.2443)$$

NOTE: Well blew a light spray of water and distillate throughout the test.

$$Aof = \underline{6608} \text{ MCF/D}$$

TESTED BY D. R. RobertsCALCULATED BY H. L. Kendrick

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