

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 27, 1967

Operator El Paso Natural Gas Company		Lease San Juan 27-5, Unit No. 105	
Location 800'S, 1500'W, Sec. 11, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Blanco	
Casing: Diameter 4.000	Set At: Feet 8343 - 8741	Tubing: Diameter 2.375	Set At: Feet 8449
Pay Zone: From 8404	To 8706	Total Depth: 8746	Shut In 6-12-67
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, PSIG 2345	+ 12 = PSIA 2357	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2354	+ 12 = PSIA 2366	
Flowing Pressure: P PSIG 306	+ 12 = PSIA 318		Working Pressure: P _w PSIG 979	+ 12 = PSIA 991	
Temperature: T = 77 °F	F _t = .9840	n = .75	F _{pv} (From Tables) 1.026	Gravity .640	F _g = .9682

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

$$Q = (12.365)(318)(.9840)(.9682)(1.026) = \underline{3844} \text{ MCF/D}$$

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

$$Aof = \left(\frac{5597956}{4615875} \right)^n = (3844)(1.2127)^{.75} = (3844)(1.1559)$$

NOTE: The well produced a light spray of water and dist. throughout the test.

$$Aof = \underline{4443} \text{ MCF/D}$$

TESTED BY Dan RobertsCHECKED BY H. E. McAnally

H. L. Kendrick
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