

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 28, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 68	
Location 965'S, 890'W, Sec. 33, T-28-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7931	Tubing: Diameter 2.375	Set At: Feet 7611
Pay Zone: From 7682	To 7889	Total Depth: 7935	Shut In 9-15-67
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 2360	+ 12 = PSIA 2372	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2360	+ 12 = PSIA 2372
Flowing Pressure: P PSIG 400	+ 12 = PSIA 412		Working Pressure: P _w PSIG 1186	+ 12 = PSIA 1198
Temperature: T = 75 °F	F _t = .9859	n = .75	F _{pv} (From Tables) 1.031	Gravity .619 F _g = .9877

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

$$Q = (12.365)(412)(.9859)(.9877)(1.031) = \underline{4959} \text{ MCF/D}$$

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

$$Aof = \left(\frac{5626384}{4191180} \right)^n = (4959)(1.3424)^{.75} = (4959)(1.2471)$$

NOTE: The well blew a light to medium fog throughout the test.

$$Aof = \underline{6184} \text{ MCF/D}$$

TESTED BY T. NortonCHECKED
WITNESSED BY A. J. Ioleit

H. L. Kendrick
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