

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 10, 1967

Operator El Paso Natural Gas Company		Lease Howell C No. 1 (OWO)	
Location 900'N, 1650'E, Sec. 1, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5233	Tubing: Diameter 2.375	Set At: Feet 5125
Pay Zone: From 4604	To 5100	Total Depth: 5233	Shut In 9-30-67
Stimulation Method Sand Water Free		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 861	+ 12 = PSIA 873	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 858	+ 12 = PSIA 870
Flowing Pressure: P PSIG 321	+ 12 = PSIA 333		Working Pressure: P _w PSIG 750	+ 12 = PSIA 762
Temperature: T = 75 °F	n = .75		F _{pv} (From Tables) 1.035	Gravity .690
	F _t = .9859			F _g = .9325

CHOKE VOLUME = Q = C × P_c × F_t × F_g × F_{pv}

Q = (12.365)(333)(.9859)(.9325)(1.035) = 3918 MCF/D

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

Aof = $\left(\frac{762129}{211565} \right)^n = (3918)(3.6023)^{.75} = (3918)(2.6148)$

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

Aof = 10,245 MCF/D

TESTED BY H. E. McAnally

CHECKED BY A. J. Loleit

H. L. Kendrick
H. L. Kendrick

