

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

Operator El Paso Natural Gas Company		Lease Howell C No. 3 (OWHO)	
Location 7904N, 16501E, Sec. 7, T-30-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5230	Tubing: Diameter 2.375	Set At: Feet 5052
Pay Zone: From 3606	To 5176	Total Depth: 5231	Shut In 6-16-67
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 819	+ 12 = PSIA 831	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 817	+ 12 = PSIA 829	
Flowing Pressure: P PSIG 292	+ 12 = PSIA 304		Working Pressure: P _w PSIG 668	+ 12 = PSIA 680	
Temperature: T = 77 °F	F _t = .9840	n = .75	F _{pv} (From Tables) 1.028	Gravity .660	F _g = .9535

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

$$Q = (12.365)(304)(.9840)(.9535)(1.028) = \underline{3626} \text{ MCF/D}$$

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

$$Aof = \left(\frac{690561}{228161} \right)^n = (3.0266)^{.75} (3626) = (2.2947)(3626)$$

NOTE: Blew very light fog of distillate and water for entire test.

$$Aof = \underline{8321} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY A. J. Loleit

H. L. Kendrick
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