

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 13, 1965

Operator El Paso Natural Gas Company		Lease Atlantic B No. 8 (OWVO)	
Location 990'S, 990'W, Sec. 3, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5436	Tubing: Diameter 2.375	Set At: Feet 5348
Pay Zone: From 4718	To 5382	Total Depth: 5436	Shut In 12-6-65
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 805	+ 12 = PSIA 817	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 805
Flowing Pressure: P PSIG 201	+ 12 = PSIA 213	Working Pressure: P _w PSIG 604	+ 12 = PSIA 616
Temperature: T = 81 °F	n = F _t = .9804	F _{pv} (From Tables) 1.022	Gravity .700
	F _g = .9258		

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

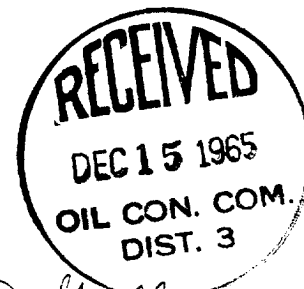
$$Q = (12.365) (213) (.9804) (.9258) (1.022) = \underline{2,443} \text{ MCF/D}$$

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

$$Aof = \left(\frac{667,489}{288,033} \right)^n = (2443) (2.3174)^{.75} = (2443) (1.8780)$$

NOTE: Blew light mist of H₂O and distillate for entire test.

$$Aof = \underline{4588} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY Tom B. Grant

Lewis D. Galloway
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