

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 19, 1964

Operator El Paso Natural Gas Company		Lease Fields No. 1 (OMWO)	
Location 990'N, 990'E, Sec. 25, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool El Paso	
Casing: Diameter 4.500	Depth: Feet 5338	Tubing: Diameter 2.000	Set At: Feet 5333
Pay Zone: From 5242	To 5338	Total Depth 5363	Shut In 8-8-64
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 872	+ 12 = PSIA 884	Days Shut-In 11	Shut-in Pressure, Tubing PSIG 872	+ 12 = PSIA 884	
Flowing Pressure: P PSIG 380	+ 12 = PSIA 392		Working Pressure: Pw PSIG 495	+ 12 = PSIA 507	
Temperature: T = 76 °F	Ft = .9850	n = .75	Fpv (From Tables) 1.037	Gravity .660	Fg = .9535

CHOKE VOLUME = Q = C x P<sub>f</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

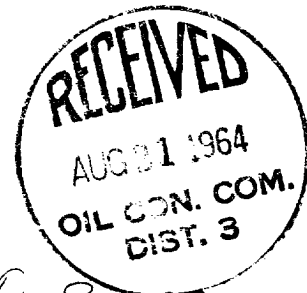
Q = (12.365)(392)(.9850)(.9535)(1.037) = 4,721 MCF/D

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

Aof =  $\left( \frac{781,456}{524,407} \right)^n = (4721) (1.4901)^{.75} = (4721)(1.3487)$

Aof = 6,367 MCF/D

TESTED BY J. B. Goodwin  
 CALCULATED BY E. B. McAnally  
 CHECKED BY W. D. Dawson



*Lewis D. Galloway*  
 Lewis D. Galloway  
*W. D. Dawson*