

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 23, 1967

Operator El Paso Natural Gas Company		Lease Gartner No. 4 (OWWO)	
Location 1650'N, 1090'E, Sec. 33, T-30-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5544	Tubing: Diameter 2.375	Set At: Feet 5378
Pay Zone: From 4776	To 5416	Total Depth: 5544	Shut In 8-16-67
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 846	+ 12 = PSIA 858	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 631	+ 12 = PSIA 643	
Flowing Pressure: P PSIG 275	+ 12 = PSIA 287		Working Pressure: Pw PSIG 796	+ 12 = PSIA 808	
Temperature: T = 69 °F	Ft = .9915	n = .75	Fpv (From Tables) 1.030	Gravity .680	Fg = .9393

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

Q = (12.365)(287)(.9915)(.9393)(1.030) = 3404 MCF/D

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

Aof =  $\left( \frac{736164}{83300} \right)^n = (3404)(8.8375)^{.75} = (3404)(5.1256)$

NOTE: Blew completely dead in app. 2 1/2 minutes and then unloaded heavy slug of H<sub>2</sub>O.

Aof = 17,448 MCF/D

TESTED BY R. F. Headrick

CALCULATED BY A. J. Loleit



H. L. Kendrick  
H. L. Kendrick by TBC