

OPEN FLOW TEST DATA

DATE November 29, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-4 Unit No. 30	
Location 1565'N, 1830'E, Sec. 31, T-28-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8701	Tubing: Diameter 2.375	Set At: Feet 8431
Pay Zone: From 8456	To 8658	Total Depth: 8701	Shut In 11-17-67
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 2672	+ 12 = PSIA 2684	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 2659	+ 12 = PSIA 2671	
Flowing Pressure: P PSIG 361	+ 12 = PSIA 373		Working Pressure: P _w PSIG 1296	+ 12 = PSIA 1308	
Temperature: T = 80 °F	n = F _t = .9813		F _{pv} (From Tables) 1.033	Gravity .655	F _g = .9571

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

Q = (12.365)(373)(.9813)(.9571)(1.033) = 4475 MCF/D

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

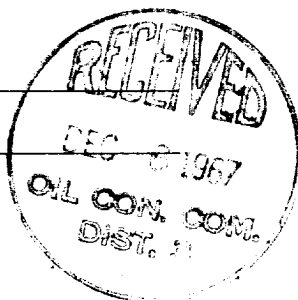
Aof = $\left(\frac{7203856}{5492992} \right)^n = (4475)(1.3114)^{.75} = (4475)(1.2255)$

NOTE: The well blew a heavy fog for first eight minutes of test and then unloaded one slug of water and oil. A light fog blew for remainder of test.

Aof = 5484 MCF/D

TESTED BY T. D. Norton

CHECKED BY A. J. Loleit



H. L. Kendrick
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