

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 17, 1971

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 123	
Location 1180' S, 1465' W S 17, T27N, R 5 W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7624	Tubing: Diameter 1.990	Set At: Feet 7553
Pay Zone: From 7366	To 7581	Total Depth: 7625	Shut In 8-6-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2635	+ 12 = PSIA 2647	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2297	+ 12 = PSIA 2309	
Flowing Pressure: P PSIG 272	+ 12 = PSIA 284		Working Pressure: Pw PSIG 543	+ 12 = PSIA 555	
Temperature: T=76 °F Ft=.9850	n = .75		Fpv (From Tables) 1.025	Gravity .655 Fg = .9571	

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

Q = 12.365 x 284 x .9850 x .9571 x 1.025 = 3393 MCF/D

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

Note: Blew heavy fog of water and for 3 hrs.

Aof =  $\left( \frac{7006609}{6698584} \right)^n = 3393(1.0459)^{.75} = 3393(1.0342)$

Aof = 3509 MCF/D

TESTED BY J. B. Goodwin

WITNESSED BY

*L. E. Mabe, Jr.*  
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