

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 27, 1967

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 107	
Location 1500'S, 890'W, Sec. 13, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7875	Tubing: Diameter 2.375	Set At: Feet 7618
Pay Zone: From 7630	To 7815	Total Depth: 7875	Shut In 6-7-67
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 2606	+ 12 = PSIA 2618	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 2595	+ 12 = PSIA 2607	
Flowing Pressure: P PSIG 230	+ 12 = PSIA 242		Working Pressure: Pw PSIG 848	+ 12 = PSIA 860	
Temperature: T = 74 °F	F _r = .9868	n = .75	F _{pv} (From Tables) 1.022	Gravity .640	F _g = .9682

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

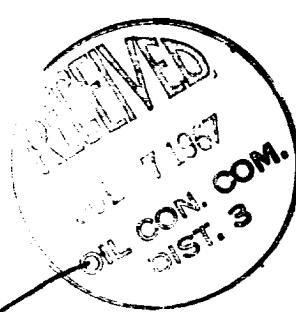
$$Q = (12.365)(242)(.9868)(.9682)(1.022) = \underline{2922} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6853924}{6114324} \right)^n = (2922)(1.1209)^{.75} = (2922)(1.0892)$$

NOTE: Well blew heavy spray of water and dist. throughout the test.

$$Aof = \underline{3183} \text{ MCF/D}$$

TESTED BY Dan RobertsCHECKED
WITNESSED BY H. E. McNally


H. E. Kendrick
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