

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-20-71

Operator El Paso Natural Gas Company		Lease San Juan 29-5 Unit No. 54	
Location 1180'S, 1740'W, S 31, T29N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7948	Tubing: Diameter 1.990	Set At: Feet 7867
Pay Zone: From 7764	To 7860	Total Depth: 7948	Shut In 5-6-71
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 2695	+ 12 = PSIA 2707	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2690	+ 12 = PSIA 2702	
Flowing Pressure: P PSIG 284	+ 12 = PSIA 296		Working Pressure: P _w PSIG 459	+ 12 = PSIA 471	
Temperature: T=72 °F	F _t = .9887	n = .75	F _{pv} (From Tables) 1.022	Gravity .600	F _g = 1.000

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

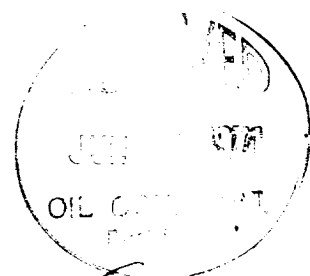
Q = 21.365 x 296 x .9887 x 1.000 x 1.022 = 3698 MCF/D

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

Note: Well produced light spray of water & distillate throughout test.

Aof = $\left(\frac{7327849}{7016008} \right)^n = (3698)(1.0316)^{.75} = (1.0236)(3698)$

Aof = 3785 MCF/D



TESTED BY Dan Roberts-Roger Hardy

WITNESSED BY _____

H. L. Kendrick
H. L. Kendrick