

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 11, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit #93	
Location 1715/N, 1580/E, Sec. 15, T28N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8041'	Tubing: Diameter 1.990	Set At: Feet 7954'
Pay Zone: From 7861'	To 7978'	Total Depth: PBD 8041' 8025'	Shut In 11-27-74
Stimulation Method Sandwater Frac.		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2400	+ 12 = PSIA 2412	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 2400	+ 12 = PSIA 2412	
Flowing Pressure: P PSIG 90	+ 12 = PSIA 102	Working Pressure: P _w PSIG 363	+ 12 = PSIA 375		
Temperature: T = 58 °F	n = F _t = 1.002	F _p v (From Tables) 1.009	Gravity .650	F _g = 0.9608	

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

Q = 12.365(102)(1.002)(0.9608)(1.009) = 1225 MCF/D

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

Aof = Q $\left(\frac{5817744}{5677119} \right)^n = 1225(1.0248)^{.75} = 1225(1.0185)$

Aof = 1248 MCF/D

Note: The well produced a heavy fog of distillate and water at first of test.



TESTED BY F. Johnson

WITNESSED BY _____

Loren W Fethergill
Well Test Engineer