

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #49	
Location 1550/S, 1720/W, Sec. 30, T27N, R4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8023'	Tubing: Diameter 1.990	Set At: Feet 7983'
Pay Zone: From 7754	To 7972	Total Depth: PBD 8023' 8004'	Shut In 6-28-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2374	+ 12 = PSIA 2386	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1332	+ 12 = PSIA 1344	
Flowing Pressure: P PSIG 201	+ 12 = PSIA 213		Working Pressure: P _w PSIG 426	+ 12 = PSIA 438	
Temperature: T = 68 °F F _t = .9924	n = .75		F _{pv} (From Tables) 1.0200	Gravity .655	F _g = .9571

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

Q = 12.365(213) (.9924) (.9571) (1.0200) = 2552 MCF/D

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

Aof = Q $\left(\frac{5692996}{5501152} \right)^n = 2552(1.0349)^{.75} = 2552(1.0260)$

Aof = 2618 MCF/D

TESTED BY D. Norton

WITNESSED BY _____



Loren W Fothergill
Loren W. Fothergill
Well Test Engineer

Note: The well unloaded heavy fog of distillate and water in approximately 12 min. Then a medium fog of distillate and water for the rest of the test.