

Operator El Paso Natural Gas Company		Lease San Juan 29-5 Unit #65	
Location 1100/S, 1180/W, Sec. 28, T-29N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8131'	Tubing: Diameter 1 1/2	Set At: Feet 8102'
Pay Zone: From 7922	To 8102'	Total Depth: 8534	Shut In 9-17-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2595	+ 12 = PSIA 2607	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2591	+ 12 = PSIA 2603	
Flowing Pressure: P PSIG 239	+ 12 = PSIA 251		Working Pressure: P _w PSIG 393	+ 12 = PSIA 405	
Temperature: T = 64°F	F _t = .9962	n = .75	F _{pv} (From Tables) 1.018	Gravity .595	F _g = 1.0041

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

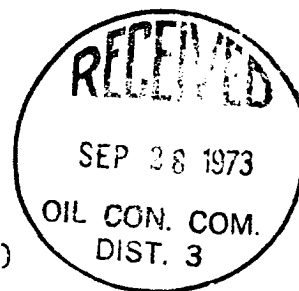
$$Q = (12.365) (251) (.9962) (1.0041) (1.018) = \underline{\quad 3160 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6796449}{6632424} \right)^n = 3160 (1.0247)^{.75} = 3160 (1.0185)$$

$$Aof = \underline{\quad 3219 \quad} \text{ MCF/D}$$

Note: Well Unloaded a medium fog of liquids in the first few min.



TESTED BY Norton

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer