

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 29-6 Unit #4-Y	
Location 1180/S, 1175/W. Sec. 17-T29N-R6W		County Rio Arriba	State NM
Formation Mesaverde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6084	Tubing: Diameter 2.375	Set At: Feet 6029
Pay Zone: From 5314	To 6036	Total Depth: 6084	Shut In 10/3/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 995	+ 12 = PSIA 1007	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 991	+ 12 = PSIA 1003	
Flowing Pressure: P PSIG 236	+ 12 = PSIA 248	Working Pressure: P _w PSIG 840	+ 12 = PSIA 852		
Temperature: T= 67 °F Ft= .9933	n = .75	Fpv (From Tables) 1.024	Gravity .660	Fg = .9535	

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

$$Q = (12.365)(248)(.9933)(.9535)(1.024) = \underline{2974} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1014 \ 049}{288 \ 145} \right)^n = (2974)(3.5192)^{.75} = (2974)(2.5694)$$

$$Aof = \underline{7642} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



J. A. Jones
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Well Test Engineer