

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 12, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #221	
Location 1800/N, 810/W, Sec. 3, T24N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2720'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2576	To 2620'	Total Depth: 2720	Shut In 10-1-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 264	+ 12 = PSIA 276	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 102	+ 12 = PSIA 114		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 140	
Temperature: T = 56 °F	n = F _t = 1.004		F _p (From Tables) 1.012	Gravity .700	F _g = .9258

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_p

$$Q = (12.365) (114) (1.004) (.9258) (1.012) = \underline{1326} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{76176}{56576} \right)^n = 1326 (1.3464)^{.85} = 1326 (1.2877)$$

$$Aof = \underline{1707} \text{ MCF/D}$$

Note: Well produced a light fog of water and distillate.

TESTED BY Norton

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

