

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 24, 1968

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 75	
Location 1650'N, 1500'E, Sec. 17, T-28-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7952	Tubing: Diameter 2.375	Set At: Feet 7718
Pay Zone: From 7734	To 7928	Total Depth: 7952	Shut In 9-15-68
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2498	+ 12 = PSIA 2510	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2502	+ 12 = PSIA 2514	
Flowing Pressure: P PSIG 262	+ 12 = PSIA 274		Working Pressure: P _w PSIG 1492	+ 12 = PSIA 1504	
Temperature: T=77 °F F _t =.9840	n = .75		F _{pv} (From Tables) 1.019	Gravity .590 F _g = 1.008	

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

$$Q = (12.365)(274)(.9840)(1.008)(1.019) = 3424 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6320196}{4058180} \right)^{.75} = (3424)(1.5573)^{.75} = (3424)(1.3541)$$

$$Aof = 4773 \text{ MCF/D}$$

NOTE: This well produced a light spray of water and distillate throughout the 3 hr. test.

TESTED BY Dannie Roberts
 CALCULATED BY: G. A. Lippman
 WITNESSED BY: H. E. McAnally
 CHECKED BY: H. E. McAnally

H. L. Kendrick
 H. L. Kendrick

