

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 7, 1969

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 79	
Location 11505, 10007, 67, 225th, NW		County Rio Arriba	State New Mexico
Formation Bakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7932	Tubing: Diameter 1.660	Set At: Feet 7903
Pay Zone: From 7770	To 7953	Total Depth: 7932	Shut In 7-26-69
Stimulation Method Gravel Water Plug		Flow Through Casing	Flow Through Tubing X1

Choke Size, Inches 0.750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2632	+ 12 = PSIA 2644	Days Shut-In 12	Shut-In Pressure, Tubing, PSIG 2639
Flowing Pressure: P, PSIG 240	+ 12 = PSIA 240	Working Pressure: P _w , PSIG 1610	+ 12 = PSIA 1632
Temperature: T = 43 °F	F _t = 1.0117	F _{pv} (From Tables) 1.027	Gravity .670
n = .75		F _g = .9465	

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

$$Q = (12.365)(240)(1.0117)(.9465)(1.027) = \underline{2918} \text{ MCF/D}$$

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

Note: The well produced a light spray of water and distillate throughout the test.

$$A_{of} = \left(\frac{6990736}{4330575} \right)^n = (2918)(1.6142)^{.75} = (2918)(1.432)$$

$$A_{of} = \underline{4179} \text{ MCF/D}$$

TESTED BY DER
 Calculated
 WITNESSED BY HEI & RES



H. L. Kendrick
 H. L. Kendrick