

## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

DATE May 15, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 145	
Location 800 E, 800 N      Sec. 35-27-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7900	Tubing: Diameter 1.900	Set At: Feet 7835
Pay Zone: From 7622	To 7846	Total Depth: 7900	Shut In 5-2-72
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2535	+ 12 = PSIA 2547	Days Shut-In	Shut-In Pressure, Tubing PSIG 1699	+ 12 = PSIA 1711	
Flowing Pressure: P PSIG 131	+ 12 = PSIA 143		Working Pressure: P <sub>w</sub> PSIG 827	+ 12 = PSIA 839	
Temperature: T = 70°F      F <sub>t</sub> = .9905	n = .75		F <sub>pv</sub> (From Tables) 1.012	Gravity .655      F <sub>g</sub> = .9571	

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

$$Q = (12.365)(143)(.9905)(.9571)(1.012) = \underline{1696} \text{ MCF/D}$$

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

NOTE: There was a light spray of water and oil throughout the test.

$$Aof = \left( \frac{6487209}{5783288} \right)^n = (1696)(1.1217)^{.75} = (1696)(1.090)$$

$$Aof = \underline{1849} \text{ MCF/D}$$

TESTED BY \_\_\_\_\_

WITNESSED BY \_\_\_\_\_

*John A. Jones*  
John A. Jones

