

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 3, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 106	
Location 1750'N, 1650'E, Sec. 13, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.50	Set At: Feet 8044	Tubing: Diameter 2.375	Set At: Feet 7779
Pay Zone: From 7779	To 7976	Total Depth: 8044	Shut In 7-26-67
Stimulation Method Sand Water Free		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2660	+ 12 = PSIA 2680	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2670	+ 12 = PSIA 2682	
Flowing Pressure: P PSIG 332	+ 12 = PSIA 344		Working Pressure: P _w PSIG 1206	+ 12 = PSIA 1218	
Temperature: T = 72 °F F _r = .9887	n = .75		F _{pv} (From Tables) 1.031	Gravity .640 F _g = .9682	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(344)(.9887)(.9682)(1.031) = 4198 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7193124}{5709600} \right)^n = (4198)(1.2598)^{.75} = (4198)(1.1891)$$

NOTE: Well blew a slight fog at beginning of test.

$$Aof = 4992 \text{ MCF/D}$$

TESTED BY Don Norton

CALCULATED
WITNESSED BY A. J. Loleit

CHECKED BY H. E. McAnally

H. L. Kendrick

