

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 1, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 169	
Location 1180/S, 1150/W, Sec. 2 T 27N, R 6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7721	Tubing: Diameter 1.900	Set At: Feet 7643
Pay Zone: From 7484	To 7674	Total Depth: 7721	Shut In 7-20-72
Stimulation Method S.W.F.		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2664	+ 12 = PSIA 2676	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 2556	+ 12 = PSIA 2568	
Flowing Pressure: P PSIG 262	+ 12 = PSIA 274		Working Pressure: P _w PSIG 512	+ 12 = PSIA 524	
Temperature: T = 74 °F	n = F _t = .9868		F _p (From Tables) 1.022	Gravity .620	F _g = .9837

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

$$Q = (12.365)(274)(.9868)(.9837)(1.022) = \underline{3361} \text{ MCF/D}$$

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

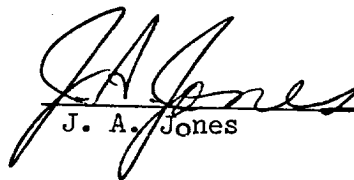
NOTE: Well produced light to medium mist of water throughout the test.

$$Aof = \left(\frac{7160976}{6886400} \right)^n = (3361)(1.0400)^{.75} = (3361)(1.0300)$$

$$Aof = \underline{3461} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____


J. A. Jones
