

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 25, 1969

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 164	
Location 1840 S, 1090 W, S2-T26N-R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7406	Tubing: Diameter 2.375	Set At: Feet 7244
Pay Zone: From 7050	To 7056	Total Depth: 7406	Shut In 8-30-69
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2378	+ 12 = PSIA 2390	Days Shut-In 26	Shut-In Pressure, Tubing PSIG 2460	+ 12 = PSIA 2472	
Flowing Pressure: P PSIG 285	+ 12 = PSIA 297		Working Pressure: P _w PSIG 714	+ 12 = PSIA 726	
Temperature: T = 80 °F	n = 0.750		F _{pv} (From Tables) 1.032	Gravity .720	F _g = 9129

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

$$Q = 12.365 \times 297 \times .9813 \times .9129 \times 1.032 = \underline{\quad 3395 \quad} \text{ MCF/D}$$

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

Note: Sprayed heavy to med. fog throughout test.

$$Aof = \left(\frac{6110784}{5583708} \right)^n = (1.0944)^{.75} 3395 = 1.070 \times 3395$$

$$Aof = \underline{\quad 3633 \quad} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____