

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 10, 1965

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 11 (0000)	
Location 1607'S, 1865'W, Sec. 6, T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7418	Tubing: Diameter 2.375	Set At: Feet 7371
Pay Zone: From 7182	To 7393	Total Depth: 7425	Shut In 9-2-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2491	+ 12 = PSIA 2503	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2244	+ 12 = PSIA 2256	
Flowing Pressure: P PSIG 318	+ 12 = PSIA 330		Working Pressure: P _w PSIG 837	+ 12 = PSIA 849	
Temperature: T = 87 °F	n = .75		F _{pv} (From Tables) 1.038	Gravity .750	F _g = .8944

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

$$Q = 12.365 \times 330 \times .9750 \times .8944 \times 1.038 = \underline{3694} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,265,009}{5,544,208} \right)^n = (3694) (1.1300)^{.75} = (3694) (1.0960) =$$

$$Aof = \underline{4049} \text{ MCF/D}$$

NOTE: Heavy fog with much oil for first five minutes then medium fog of distillate and water for remainder of test.

TESTED BY Don Norton (Calc.Tbg.)CHECKED BY Hermon E. McAnally

L. D. Galloway
Lewis D. Galloway.