

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA**CORRECTED COPY** DATE August 15, 1962

Operator El Paso Natural Gas Company		Lease Rincon No. 155	
Location 990S, 590W, Sec. 17-27N, 6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.5	Set At: Feet 7688	Tubing: Diameter 2.375	Set At: Feet * 7301
Pay Zone: From 7363	To 7409	Total Depth: 7688	Shut In 7-27-62
Stimulation Method Sand Water Frac.		Flow Through Tubing X	

Choke Size, Inches 0.750		Choke Constant: C 12.365		Baker "DA" Packer at 7300'	
Shut-In Pressure, Casing, PSIG 1033	+ 12 - PSIA 1045	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG 2486	+ 12 - PSIA 2498	
Flowing Pressure: P, PSIG 235	+ 12 - PSIA 247		Working Pressure: P _w , PSIG Calc. 536	+ 12 - PSIA	
Temperature: T 69 F	F _r .9915		F _{pv} (From Tables) 1.027	Gravity .700	F _g .9258

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

$$Q = (12.365)(247)(.9915)(.9258)(1.027) = 2879 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,240,004}{5,892,900} \right)^n (1.0589)^{.75} (2879) = (1.0438)(2879)$$

NOTE: Tubing is set through a packer.
Final working pressure is therefore
a calculated value.

$$Aof = 3005 \text{ MCF/D}$$

* CORRECTED COPY

TESTED BY Tom B. Grant

WITNESSED BY _____

Checked by: Clarence R. Wagner

Lewis D. Galloway
Lewis D. Galloway

