

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE February 6, 1974

Operator El Paso Natural Gas Company		Lease Rincon Unit #202	
Location 800/N, 800/E, Sec. 27, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7674'	Tubing: Diameter 2.375	Set At: Feet 7554'
Pay Zone: From 7405	To 7570	Total Depth: PBTD 7674 7658	Shut In 1-25-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2470	+ 12 = PSIA 2482	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 2420	+ 12 = PSIA 2432	
Flowing Pressure: P PSIG 210	+ 12 = PSIA 222		Working Pressure: Pw PSIG 638	+ 12 = PSIA 650	
Temperature: T = 64 °F	n = .75		Fpv (From Tables) 1.022	Gravity .650	Fg = .9608

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

$$Q = 12.365(222)(.9962)(.9608)(1.022) = \underline{\quad 2685 \quad} \text{MCF/D}$$

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

$$Aof = Q \left( \frac{6160324}{5737824} \right)^n = 2685(1.0736)^{.75} = 2685(1.0547)$$

$$Aof = \underline{\quad 2832 \quad} \text{MCF/D}$$

Note: Well blew a heavy fog of distillate and water throughout the test.

TESTED BY Johnston

WITNESSED BY

*Loren W. Fothergill*  
Loren W. Fothergill  
Well Test Engineer

