

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 7, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #179	
Location 1180/S, 1500/W Sec. 13, T-27N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7605'	Tubing: Diameter 1 1/2	Set At: Feet 7539'
Pay Zone: From 7354	To 7564	Total Depth: 7605	Shut In 8-30-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12,365			
Shut-In Pressure, Casing, PSIG 2627	+ 12 = PSIA 2639	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1625	+ 12 = PSIA 1637	
Flowing Pressure: P PSIG 450	+ 12 = PSIA 462		Working Pressure: P _w PSIG 765	+ 12 = PSIA 777	
Temperature: T = 75 °F	n = F _t = .9859		F _{pv} (From Tables) 1.037	Gravity .620	F _g = .9837

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

$$Q = (12,365)(462)(.9859)(.9837)(1.037) = \underline{5745} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6964321}{6360592} \right)^n = 5745 (1.0949)^{.75} = 5745 (1.0704)$$

$$Aof = \underline{6150} \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY _____



William D. Welch
 William D. Welch
 Well Test Engineer