

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 3, 1973

Operator El Paso Natural Gas Company		Lease Rincon Unit #196	
Location 1650/S, 1650/W, Sec. 26, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3368'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3266	To 3304	Total Depth: 3368	Shut In 11-20-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12,365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1059	+ 12 = PSIA 1071	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 279	+ 12 = PSIA 291	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 374		
Temperature: T = 63 °F	Ft = .9971	n = .85	Fpv (From Tables) 1.029	Gravity .665	Fg = .9498

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

$$Q = (12,365)(291)(.9971)(.9498)(1.029) = \underline{\quad 3507 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1147041}{1007165} \right)^n = 3507 (1.1389)^{.85} = 3507(1.1169)$$

$$Aof = \underline{\quad 3917 \quad} \text{ MCF/D}$$

Note: Dry Gas.

TESTED BY R. Hardy

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer