

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 13, 1973

Operator El Paso Natural Gas Company		Lease Rincon Unit #148	
Location 1140/N, 990/W, Sec. 23, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3319'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3178	To 3228'	Total Depth: 3319	Shut In 12-5-73
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 1019	+ 12 = PSIA 1031	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 126		
Temperature: T = 58 °F	n = .85	Fpv (From Tables) 1.009	Gravity .665	Fg = .9498	

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

$$Q = (12.365) (99) (1.002) (.9498) (1.009) = \underline{\quad 1176 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1062961}{1047085} \right)^n = 1176 (1.0152)^{.85} = 1176 (1.0129)$$

$$Aof = \underline{\quad 1191 \quad} \text{ MCF/D}$$

Note: Well produced a light fog of water.

TESTED BY B. Broughton

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer

