

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 14, 1973

Operator El Paso Natural Gas Company		Lease Rincon Unit #199	
Location 1000/S, 1480/E, Sec. 14, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3395'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3234	To 3290	Total Depth: 3395	Shut In 12-7-73
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 907	+ 12 = PSIA 919	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 90	+ 12 = PSIA 102	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 130		
Temperature: T = 55 °F	n = .85	Fpv (From Tables) 1.009	Gravity .665	Fg = .9498	
Ft = 1.0048					

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

$$Q = (12.365)(102)(1.0048)(.9498)(1.009) = \underline{\quad 1214 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{844561}{827661} \right)^n = 1214 (1.0204)^{.85} = (1.0173)(1214)$$

$$Aof = \underline{1237} \text{ MCF/D}$$

Note: Blew light fog of water.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer

