

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 6, 1973

Operator El Paso Natural Gas Company		Lease Rincon Unit #142	
Location 1650/S, 1040/E, Sec. 27, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3318'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3198	To 3254	Total Depth: 3340	Shut In 11-27-73
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 1063	+ 12 = PSIA 1075	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 154	+ 12 = PSIA 166	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 211		
Temperature: T = 59 °F	n = Ft = 1.001	Fpv (From Tables) 1.015	Gravity .655	Fg = .9498	

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

$$Q = (12.365)(166)(1.001)(.9498)(1.015) = \underline{\quad 1981 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1155625}{1111104} \right)^n = 1981(1.0401)^{.85} = 1981(1.0340)$$

$$Aof = \underline{\quad 2048 \quad} \text{ MCF/D}$$

Note: Dry Flow.

TESTED BY C. Rhames

WITNESSED BY _____

William D. Welch
 William D. Welch
 Well Test Engineer

