

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

Operator El Paso Natural Gas Company		Lease Rincon Unit #197	
Location 1460/S, 1760/W, Sec. 28, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3305'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3202	To 3260	Total Depth: 3305	Shut In 11-23-73
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 1094	+ 12 = PSIA 1106	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 105	+ 12 = PSIA 117	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 149		
Temperature: T = 54 °F	Ft = 1.006	n = .85	Fpv (From Tables) 1.011	Gravity .655	Fg = .9498

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

$$Q = (12.365)(117)(.9498)(1.006)(1.011) = \underline{\quad 1398 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1223236}{1201035} \right)^n = 1398 (1.0185)^{.75} = 1398(1.0157)$$

$$Aof = \underline{\quad 1419 \quad} \text{ MCF/D}$$

Note: Dry Gas.

TESTED BY Norton

WITNESSED BY _____

William D. Welch
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 Well Test Engineer