

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 13, 1973

Operator El Paso Natural Gas Company		Lease Rincon Unit #194	
Location 1850/N, 1650/E, Sec. 16, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 3341'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3194	To 3240	Total Depth: 3341	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 1032	+ 12 = PSIA 1044	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 129	+ 12 = PSIA 141	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 179		
Temperature: T = 59 °F	Ft = .9952	n = .85	Fpv (From Tables) 1.012	Gravity .655	Fg = .9498

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

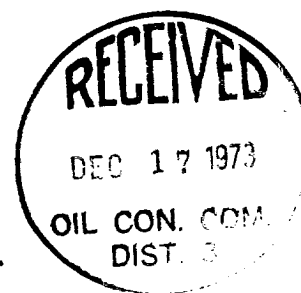
$$Q = (12.365)(141)(.9952)(.9498)(1.012) = \underline{\quad 1668 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1089936}{1057895} \right)^n = 1668(1.0303)^{.85} = (1.0257)(1668)$$

$$Aof = \underline{\quad 1712 \quad} \text{ MCF/D}$$

Note: Blew Clear Gas.



TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch
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Well Test Engineer