

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 24, 1963

Operator El Paso Natural Gas Company		Lease Lindrith No. 49	
Location 1550'N, 1840'E, Sec. 9, T-24-N, R-3-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 3351	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 3268	To 3296	Total Depth: 3351	Shut In 10-17-63
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		"TUBINGLESS COMPLETION"	
Shut-In Pressure, Casing, PSIG 922	+ 12 = PSIA 934	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 245	+ 12 = PSIA 257		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 330	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.025	Gravity .650	F _g = .9608

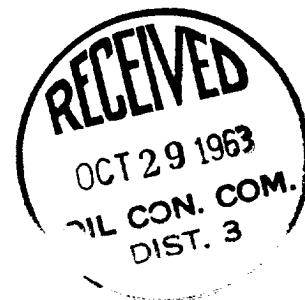
$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(257)(.9990)(.9608)(1.025) = \underline{3126} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{872,356}{763,456} \right)^n = (3126)(1.1426)^{.85} = (3126)(1.1200)$$

$$A_{of} = \underline{3501} \text{ MCF/D}$$

TESTED BY Dan RobertsCalculated by W. D. Dawson

H. L. Kendrick
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