

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 2, 1967

Operator El Paso Natural Gas Company		Lease Lindrith Unit No. 66	
Location 1400'N, 1600'W, Sec. 30, T-24-N, R-2-W		County Rio Alriba	State New Mexico
Formation Pictured Cliff		Pool So. Blanco	
Casing: Diameter	Set At: Feet 3170	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3014	To 3144	Total Depth: 3170	Shut In 7-21-67
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, 937	PSIG	+ 12 = PSIA 949	Days Shut-In 12	Shut-In Pressure, Tubing No Tubing	PSIG
Flowing Pressure: P 148	PSIG	+ 12 = PSIA 160		Working Pressure: P _w Calc.	PSIG
Temperature: T = 80 °F		n = .85		F _{pv} (From Tables) 1.014	Gravity .650
	F _t = 1.0019				F _g = .9608

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

$$Q = (12.365)(160)(1.0019)(.9608)(1.014) = \underline{1931} \text{ MCF/D}$$

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

$$Aof = \left(\frac{900601}{859392} \right)^n = (1931)(1.0479)^{.85} = (1931)(1.0406)$$

$$Aof = \underline{2009} \text{ MCF/D}$$

TESTED BY Don RobertsWITNESSED BY T. B. GrantCALCULATED BY A. J. Loleit


H. L. Kendrick