

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

Operator El Paso Natural Gas Company		Lease Lindrith Unit No. 65	
Location 1690'N, 100'E, Sec. 30, T-24-N, R-2-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.75	Set At: Feet 3133	Tubing: Diameter No Tubing	Set At: Feet -----
Pay Zone: From 2000	To 3037	Total Depth: 3133	Shut In 7-21-67
Stimulation Method CW Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 932	+ 12 = PSIA 944	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 57	+ 12 = PSIA 69	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 86		
Temperature: T = 72 °F	F _t = .9887	n = .85	F _p (From Tables) 1.008	Gravity .650	F _g = .9608

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

$$Q = (12.365)(69)(.9887)(.9608)(1.008) = .817 \text{ MCF/D}$$

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

$$Aof = \left(\frac{891136}{883740} \right)^n = (817)(1.0083)^{.85} = (817)(1.0070)$$

$$Aof = 823 \text{ MCF/D}$$

TESTED BY Dan RobertsCALCULATED BY A. J. LoleitCHECKED BY T. B. Grant
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