

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 15, 1964

Operator El Paso Natural Gas Company		Lease Lindrith Unit No. 54	
Location 1500'S, 1550'W, Sec. 31, T-24-N, R-2-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 3178	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3060	To 3068	Total Depth: 3188	Shut In 6-5-64
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 935	+ 12 = PSIA 947	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 95	+ 12 = PSIA 107	Working Pressure: P _w PSIG (Calc.)	+ 12 = PSIA 135		
Temperature: T = 62 °F	F _t = .9981	n = .85	F _p (From Tables) 1.009	Gravity .650	F _g = .9608

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

$$Q = (12.365)(107)(.9981)(.9608)(1.009) = \underline{1280} \text{ MCF/D}$$

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

$$Aof = \left(\frac{896809}{878584} \right)^n = (1280)(1.0207)^{.85} = (1280)(1.0176)$$

NOTE: Blew a very light fog of water.

$$Aof = \underline{1303} \text{ MCF/D}$$

TESTED BY Tom B. Grant
 Calculated
 WITNESSED BY W. D. Dawson



Lewis D. Galloway
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