

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 13, 1968

Operator El Paso Natural Gas Company		Lease Florence C No. 12	
Location 1840'N, 990'W, Sec. 19, T-28-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2199	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 2094	To 2135	Total Depth: 2300	Shut In 6-6-68
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 704	+ 12 = PSIA 716	Days Shut-In 7	Shut-In Pressure, Tubing PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P PSIG 78	+ 12 = PSIA 90		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 107	
Temperature: T = 61 °F	n = .85		Fpv (From Tables) 1.009	Gravity .650	Fg = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = (12.365)(90)(.9990)(.9608)(1.009) = 1078 \text{ MCF/D}$$

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

$$Aof = \left( \frac{512656}{501207} \right)^n = (1078)(1.0228)^{.85} = (1078)(1.0195)$$

$$Aof = 1099 \text{ MCF/D}$$

TESTED BY Don NortonCALCULATED  
WITNESSED BY G. A. Lippman

*T. B. Grant*  
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