

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 14, 1968

Operator El Paso Natural Gas Company		Lease Section No. 23	
Location 1650'S, 1125'E, Sec. 29, T-31-N, R-11-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Antec	
Casing: Diameter 2.375	Set At: Feet 2646	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2495	To 2530	Total Depth: 2646	Shut In 8-1-68
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 634	+ 12 = PSIA 646	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 148	+ 12 = PSIA 160		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 195	
Temperature: T = 66 °F	n = .85		F _{pv} (From Tables) 1.015	Gravity .675	F _g = .9427

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(160)(.9943)(.9427)(1.015) = 1882 \text{ MCF/D}$$

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

$$Aof = \left(\frac{417316}{379291} \right)^n = (1882)(1.1002)^{.85} = (1882)(1.0845)$$

Note: The well produced dry gas for the entire test period.

$$Aof = 2041 \text{ MCF/D}$$

TESTED BY Bobby BroughtonChecked
WITNESSED BY Tom B. Grant

H.L. Kendrick
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