

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 27, 1967

Operator El Paso Natural Gas Company		Lease Russell No. 6	
Location 890'S, 1090'W, Sec. 25, T-28-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2491	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 2360	To 2388	Total Depth: 2505	Shut In 9-15-67
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, PSIG 1046	+ 12 = PSIA 1058	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 182	+ 12 = PSIA 194	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 235		
Temperature: T = 65 °F Ft = .9952	n = .85	Fpv (From Tables) 1.018	Gravity .650	Fg = .9608	

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

$$Q = (194)(12.365)(.9952)(.9608)(1.018) = \underline{2335} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1119364}{1064139} \right)^n = (2335)(1.0518)^{.85} = (2335)(1.0439)$$

NOTE: Blew clear gas for entire test.

$$Aof = \underline{2438} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED
WITNESSED BY A. J. Loleit


H. L. Kendrick
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