

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 9, 1964

Operator El Paso Natural Gas Company		Lease Johnston State No. 12	
Location 800'S, 890'W, Sec. 36, T-27-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7811	Tubing: Diameter 2.375	Set At: Feet 7516
Pay Zone: From 7528	To 7736	Total Depth: 7811	Shut In 11-2-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2650	+ 12 = PSIA 2662	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2641	+ 12 = PSIA 2653	
Flowing Pressure: P PSIG 231	+ 12 = PSIA 243		Working Pressure: P _w PSIG 889	+ 12 = PSIA 901	
Temperature: T = 79 °F	F _t = .9822	n = .75	F _{pv} (From Tables) 1.025	Gravity .700	F _g = .9258

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

$$Q = (12.365)(243)(.9822)(.9258)(1.025) = \underline{2801} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{7,086,244}{6,274,443} \right)^n = (1.1293)^{.75}(2801) = (1.0954)(2801) =$$

NOTE: Heavy fog of water throughout test.

$$A_{of} = \underline{3068} \text{ MCF/D}$$

TESTED BY Tom B. Grant
 CHECKED BY W. D. Dawson
 WITNESSED BY _____



Lewis D. Galloway
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