

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

CORRECTED COPY

DATE August 19, 1964

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 21 (PC) (OWNO)	
Location 85°N, 120°E, Sec. 30, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 7.625	Set At: Feet 3899	Tubing: Diameter 1.660	Set At: Feet 3870
Pay Zone: From 3820	To 3890	Total Depth: 6022	Shut In 7-30-64
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Model "N" Baker Packoff set at 3913 ft.	
Shut-in Pressure, Casing, (PC) 593	PSIG	+ 12 = PSIA 605	Days Shut-in 20	Shut-in Pressure, Tubing (TC) 594	PSIG
		+ 12 = PSIA 606			
Flowing Pressure: P 59	PSIG	+ 12 = PSIA 71		Working Pressure: P _w 63	PSIG
		+ 12 = PSIA 75			
Temperature: T = 59 °F	F _t = 1.0010	n = .85		F _{pv} (From Tables) 1.009	Gravity .688
					F _g = .9359

ISIPT (MV) = 525 psig

FSIPT (MV) = 526 psig

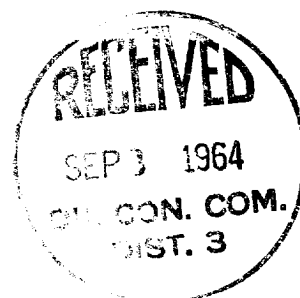
CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365) (71) (1.0010) (.9359) (1.009) = 830 \text{ MCF/D}$$

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

$$Aof = \left(\frac{767,216}{361,611} \right)^{.85} = (830) (1.0155)^{.85} = (830) (1.0132)$$

$$Aof = 841 \text{ MCF/D}$$



TESTED BY Dannie R. Roberts
 CALCULATED
 WITNESSED BY W. D. Dawson

Lewis D. Galloway
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