

OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE December 16, 1965

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 8 (PC) (OWWO)	
Location 1650'S, 1090'W, Section 32, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 7.625	Set At: Feet 5290	Tubing: Diameter 1.660	Set At: Feet 3136
Pay Zone: From 3238	To 3284	Total Depth: 5645	Shut In 12-2-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, inches .750	Choke Constant: C 12.365		Baker Model "D" Packer set at 4374'.	
Shut-In Pressure, Casing, PSIG 756	+ 12 = PSIA 768	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 756	+ 12 = PSIA 768
Flowing Pressure: P, PSIG 92	+ 12 = PSIA 104		Working Pressure: P _w PSIG 97	+ 12 = PSIA 109
Temperature: T = 55 °F	n = 1.0039		F _{pv} (From Tables) 1.007	Gravity .620
	F _g = .9837			F _g = .9837

Initial SIPT (MV) = 841 PSIG

Final SIPT (MV) = 843 PSIG

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

$$Q = (12.365) (104) (1.0039) (.9837) (1.007) = 1.279 \text{ MCF/D}$$

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

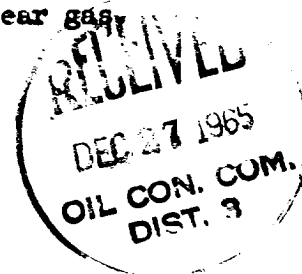
$$A_{of} = \left(\frac{589,824}{577,943} \right)^n = (1.279) (1.0205)^{.85} = (1.279) (1.0174)$$

NOTE: Blew clear gas

$$A_{of} = 1.301 \text{ MCF/D}$$

TESTED BY R. Headrick

CHECKED BY Hermon E. McAnally



Lewis D. Galloway

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