

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 10, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 86 (PC) (OWWO)	
Location 1800'S, 1550'W, Sec. 7, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 7.625	Set At: Feet 3201	Tubing: Diameter 1.660	Set At: Feet 3069
Pay Zone: From 3038	To 3131	Total Depth: 5457	Shut In 8-18-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Packer Set at 3127	
Shut-In Pressure, Casing, (PC) 451	PSIG + 12 = PSIA 463	Days Shut-In 23	Shut-In Pressure, Tubing (PC) 451	PSIG + 12 = PSIA 463	
Flowing Pressure: P 26	PSIG + 12 = PSIA 38		Working Pressure: P _w 27	PSIG + 12 = PSIA 39	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.004	Gravity .656	F _g = .9571

ISEPT (MV) 648 PSIG
FSEPT (MV) 649 PSIG

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

$$Q = 12.365 \times 38 \times .9990 \times .9571 \times 1.004 = 451 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{214,369}{212,848} \right)^{.85} = 451 \times (1.0071)^{.85} = 451 \times 1.0060 =$$

$$A_{of} = 454 \text{ MCF/D}$$

TESTED BY Don Norton Calc. Tbg.

CHECKED BY W. D. Dawson



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