

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 17, 1973

Operator El Paso Natural Gas Company		Lessee San Juan 27-5 Unit 155	
Location 1550/N, 800/W Sec 22, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2 7/8	Set At: Feet 3447	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3330	To 3372	Total Depth: 3447	Shut In 7-5-73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 642	+ 12 = PSIA 654	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 309	+ 12 = PSIA 321		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 415	
Temperature: T = 60 °F	n = .85		F _{pv} (From Tables) 1.031	Gravity .655	F _g = .9571

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

$$Q = (12.365)(321)(1.000)(.9571)(1.031) = \underline{\quad 3917 \quad} \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{427716}{255491} \right)^n = 3917(1.6741)^{.85} = 3917(1.5496)$$

$$Aof = \underline{\quad 6069 \quad} \text{ MCF/D}$$

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William D. Welch
William D. Welch, Well Test Engineer