

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 26, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 167	
Location 1750'S, 1500'W, Section 4, T27N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7672	Tubing: Diameter 1.900	Set At: Feet 7635
Pay Zone: From 7386	To 7650	Total Depth: 7672	Shut In 7-16-72
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2650	+ 12 = PSIA 2662	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 2529	+ 12 = PSIA 2541	
Flowing Pressure: P PSIG 293	+ 12 = PSIA 305		Working Pressure: P _w PSIG 555	+ 12 = PSIA 567	
Temperature: T = 69 °F	F _t = .9915	n = .75	F _{pv} (From Tables) 1.025	Gravity .620	F _g = .9837

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

$$Q = (12.365) (305) (.9915) (.9837) (1.025) = \underline{\quad 3770 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7086244}{6764755} \right)^n = (3770) (1.0475)^{.75} = (3770) (1.0354) =$$

$$Aof = \underline{\quad 3904 \quad} \text{ MCF/D}$$

TESTED BY R. Hardy

WITNESSED BY _____



J. A. Jones
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