

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE

August 1, 1956

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit # 61	
Location 1550'S, 1650'W, Sec. 10-28-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5½	Set At Feet 5750	Tubing Diameter 2"	Set At Feet 5643
Pay Zone From 5020	To 5632	Total Depth 5750 - c/o - 5670'	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Casing Size, Inches 3/4	Choke Constant, C 14.1605		
Shut-In Pressure, Casing, PSIG 1069	PSIG - 12 - PSIA 1081	Days Shut-In 11	Shut-In Pressure, Tubing, PSIG 1063
Flowing Pressure, P, PSIG 356	PSIG - 12 - PSIA 368		Working Pressure, P _w , PSIG 840
Temperature, T, °F 72	0.75	Fpv (From Tables) 1.041	Gravity 0.700 (est.)

CHOKE VOLUME $Q = C \times P_r \times F \times F_a \times F_{pv}$

$$Q = 14.1605 \times 368 \times .9887 \times .9258 \times 1.041 = 4965 \text{ MCF/D}$$

OPEN FLOW

$$Q = \left(\frac{P_c^2}{P_r - P_w} \right)^n$$

$$Q = \left(\frac{1,168,561}{442,657} \right)^n \quad (2.6399)^{.75} Q = 2.070 Q$$

$$Q = 10,278 \text{ MCF/D}$$

D. C. Adams



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