

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 22, 1957

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit # 21	
Location 990'N, 1650'E, Sec. 3-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5$\frac{1}{2}$	Set At: Feet 5803	Tubing: Diameter 2	Set At: Feet 5723
Pay Zone: From 5210	To 5732	Total Depth: 5820 - c/o - 5750	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 1089	- 12 = PSIA 1101	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 1090
Flowing Pressure: P, PSIG 317	- 12 = PSIA 329		Working Pressure: P _w , PSIG 750
Temperature: T, °F 69	n = 0.750		Fpv (From Tables) 1.031
			Gravity .650

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

$$Q = 12.365 \times 329 \times .9915 \times .9608 \times 1.031 = 3996 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,214,404}{621,504} \right)^n = 1.9539^{.75} \times 3996 = 1.6530 \times 3996$$

$$Aof = 6605 \text{ MCF/D}$$

TESTED BY Tom Grant

WITNESSED BY _____



L. D. Galloway
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