

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 26, 1960

Operator El Paso Natural Gas Company		Lease San Juan 31-6 No. 17-1	
Location 990'S, 1750'W, 1-30N-6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8"	Set At: Feet 3570	Tubing: Diameter 2"	Set At: Feet 5797
Pay Zone: From 5508	To 5729	Total Depth: 5851 C/O 5814	Shut In 9-1-60
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		5-1/2" Liner from 3520 to 5849	
Shut-In Pressure, Casing, PSIG 1168	+ 12 = PSIA 1180	Days Shut-In 55	Shut-In Pressure, Tubing, PSIG 1142	+ 12 = PSIA 1154	
Flowing Pressure: P, PSIG 283	+ 12 = PSIA 295		Working Pressure: P _w , PSIG 711	+ 12 = PSIA 723	
Temperature: T = 68 °F	F _g = .9924		F _{pv} (From Tables) 1.023	Gravity .610	F _g = .9918

CHOKE VOLUME : $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = 12.365 \times 295 \times .9924 \times .9918 \times 1.023 = \underline{3673} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1392400}{869671} \right)^n = (1.6010)^{.75} (3673) = (1.4299) (3673)$$

$$Aof = \underline{5227} \text{ MCF/D}$$

TESTED BY Tom Grant

WITNESSED BY _____

Checked by W. D. Dawson

Lewis D. Galloway
 Lewis D. Galloway