

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **November 2, 1960**

Operator El Paso Natural Gas Company		Lease San Juan 27-4 No. 24	
Location 1650'B, 1090'W, 6-27N-4W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco MV	
Casing Diameter 7-5/8"	Set At Feet 4136	Tubing Diameter 2"	Set At Feet 6177
Play Zones From 6032	To 6154	Total Depth 6267 c/o 6209	Shut In 10-22-60
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365		5-1/2" Liner from 4046 to 6256	
Shut-In Pressure, casing, PSIG 1108	PSIA 1120	Days Shut-In 11	Shut-In Pressure, Tubing, PSIG 1090	PSIA 1102	
Flowing Pressure, P, PSIG 298	PSIA 310		Working Pressure, Pw, PSIG 772	PSIA 784	
Temperature, T, F 65	F _g .9952		Spv (From Tables) 1.034	Gravity .697	F _g .9292

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

$$Q = (12.365 \times 310 \times .9952 \times .9292 \times 1.034)$$

3665

MCF/D

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

$$Aof = \left(\frac{1,254,400}{639,744} \right)^n$$

$$(1.9607)^{.75} (3665) = (1.6570)(3665)$$

Aof **6073**

MCF/D

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