

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 3, 1960

Operator El Paso Natural Gas Company		Lease San Juan 27-4 No. 25	
Location 890'S, 1180'W, 30-27N-4W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco MV	
Casing: Diameter 7-5/8	Set At: Feet 3757	Tubing: Diameter 2"	Set At: Feet 5881
Pay Zone: From 5772	To 5881	Total Depth: 5944 c/o 5905	Shut In 10-17-60
Stimulation: Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" Liner from 3716 to 5942	
Shut-In Pressure, Casing, PSIG 1138	+ 12 = PSIA 1150	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1138	+ 12 = PSIA 1150	
Flowing Pressure: P (Tbg) PSIG 279	+ 12 = PSIA 291		Working Pressure: Pw (Cag) PSIG 700	+ 12 = PSIA 712	
Temperature: T = 64 °F	F _g = .9962		F _{lv} (From Tables) 1.030	Gravity .670	F _g = .9463

CHOKE VOLUME $Q = C \times P_i \times F_i \times F_g \times F_{pv}$
 $Q = (12.365)(291)(.9962)(.9463)(1.030) = 3494 \text{ MCF/D}$

OPEN FLOW - $Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$
 $Aof = \left(\frac{1,322,500}{815,556} \right)^n (1.6215)^{.75} (3494) = (1.4370)(3494)$

Aof = 5021 MCF/D

TESTED BY D. E. Mortensen

WITNESSED BY _____

Calculated by W. D. Dawson
Checked by T. B. Grant

Lewis D. Galloway
Lewis D. Galloway

