

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE **March 30, 1959**

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 41 (P)	
Location 16908, 1650W; 21-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3455	Tubing: Diameter 1-1/4	Set At: Feet 3331
Pay Zone: From 3290	To 3348	Total Depth: 5669 c/o 5662	Shut in 3/12/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, inches .75	Choke Constant: C 12.365	5-1/2 liner 3400 - 5666	
Shut-In Pressure, Casing, PSIG 1007 (PC)	12 - PSIA	Days Shut-In 18	Shut-In Pressure, Tubing, PSIG - 12 - PSIA 1007 (PC) 1019
Flowing Pressure: P, PSIG 168	12 - PSIA		Working Pressure: P _w , PSIG - 12 - PSIA 172 184
Temperature: T, F 58	F _g = .85	F _{pv} (From Tables) 1.019	Gravity .669

Initial SIPT (MV) = 1055 psig
Final SIPT (MV) = 1063 psig

Packer at 3454

CHOKE VOLUME = Q = C x P_c x F_g x F_{pv}

Q = 12.365 x 180 x 1.0019 x .9498 x 1.018 = 2156 MCF/D

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

Aof = $\left(\frac{1038361}{1004905} \right)^n \cdot 1.0337^{.85} \times 2156 = 1.0286 \times 2156$

Aof = 2218 MCF/D

TESTED BY S. V. Roberts

WITNESSED BY _____

Lewis D. Galloway
L. D. Galloway