

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 24, 1959

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 47 (P) ONNO	
Location 15008, 1750W; 18-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3376	Tubing: Diameter 1-1/4	Set At: Feet 3248
Pay Zone From 3210	To 3278	Total Depth c/o 5491	Shut In: 11/10/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 922 (P)	- 12 = PSIA 934	Days Shut-In 14	Shut-In Pressure, Tubing, PSIG 922 (P)
Flowing Pressure: P, PSIG 106	- 12 = PSIA 118		Working Pressure: Pw, PSIG 111
Temperature: T, F 57		Fpv (From Tables) 1.009	Gravity .629

Initial SIPT (MV) = 808 psig
Final SIPT (MV) = 810 psig

Packer at 3295

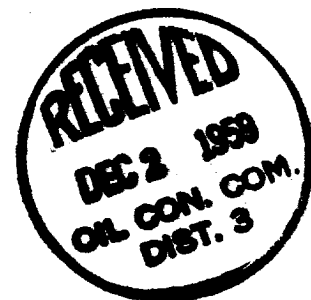
CHOKE VOLUME = Q = C x P_c x F_g x F_{pv}

Q = 12.365 x 118 x 1.0029 x .9798 x 1.009 = 1447 MCF/D

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

Aof = $\left(\frac{872356}{857227} \right)^n = 1.0176^{.85} \times 1447 = 1.0149 \times 1447$

Aof = 1469 MCF/D



TESTED BY B. V. Roberts

WITNESSED BY _____

L. D. Galloway
L. D. Galloway *L.H.K.*