

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **September 1, 1961**

Operator El Paso Natural Gas Company		Lease Case No. 9	
Location 1680'S, 1500'W, Sec. 8-31N-11W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5-1/2" O.D.	Set At: Feet 7084	Tubing: Diameter 2-1/16" O.D. & 2-3/8" OD	Set At: Feet 7265
Pay Zone: From 7170	To 7284	Total Depth: 7466 P/B 7335	Shut In 8-23-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750"	Choke Constant: C 12.365	4" O.D., 11.34 lbs. liner from 6996 to 7460	
Shut-In Pressure, Casing, PSIG 2063	PSIG - 12 - PSIA 2075	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG - 12 - PSIA 1771
Flowing Pressure: P, PSIG 129	PSIG - 12 - PSIA 141	Working Pressure: Pw, PSIG - 12 - PSIA 610	Flowing Pressure: Pw, PSIG - 12 - PSIA 622
Temperature: T, F 69	F _r .9915	F _p (From Tables) 1.012	Gravity .645 F _g .9645

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

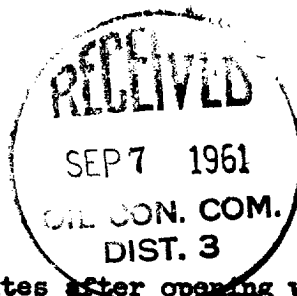
$$Q = (12.365)(141)(.9915)(.9645)(1.012)$$

1687 MCF/D

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

$$Aof = \left(\frac{4,305,625}{3,918,741} \right)^n (1687)(1.0987)^{.75} = (1687)(1.0732)$$

Aof 1810 MCF/D



NOTE: About 4 minutes after opening well it blew down and immediately started unloading a solid stream of water, which continued for about 30 sec. During the remainder of the test the well blew a fairly heavy mist of water.

TESTED BY **W. D. Dawson**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway