

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **September 28, 1961**

Operator El Paso Natural Gas Company		Lease Ludwick No. 19	
Location 800'N, 1800'E, Sec. 5-29N-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2" O.D.	Set At: Feet 6951	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 6753
Pay Zone: From 6692	To 6904	Total Depth: C/O 6915	Shut In 9-20-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2069	PSIG + 12 PSIA 2081	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 2071
Flowing Pressure: P PSIG 176	PSIG + 12 PSIA 188	Working Pressure: Pw 615	PSIG + 12 PSIA 627
Temperature 81 F	Fr. .9804	Fpv (From Tables) 1.015	Gravity .649
	.75		Fg = .9645

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

$$Q = (12.365)(188)(.9804)(.9645)(1.015)$$

2231

MCF/D

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

$$Aof = \left(\frac{4,338,889}{3,945,760} \right)^n$$

$$(2231)(1.0996)^{.75} = (2231)(1.0738)$$

Aof

2396

MCF/D

TESTED BY **W. D. Dawson**

WITNESSED BY

Checked by: **T. B. Grant**

NOTE: Blew a medium mist of water during entire test with an occasional slug.

Lewis D. Galloway
L. D. Galloway

