

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **October 12, 1961**

Operator El Paso Natural Gas Company		Lease Lackey "B" No. 17	
Location 2310'N, 1550'E, Sec. 21-28N-9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4-1/2" O.D.	Set At: Feet 7860	Tubing Diameter 2-3/8" O.D.	Set At: Feet 7706
Play Zone: To 7620	To 7682	Total Depth: 7860 C/O 7845	Shut In 10-2-61
Stimulation Method Sand/Water Frac.		Flow Through Tubing X	

Choke Size, inches 0.750		Choke Constant: C 12.365		Heavy fog of water throughout test.	
Shut-in Pressure, Casing, PSIG 1873	PSIA 1885	Days Shut-In 10	Shut-in Pressure, Tubing, PSIG 1612	PSIA 1624	
Flowing Pressure: P, PSIG 180	PSIA 192		Working Pressure: Pw, PSIG 617	PSIA 629	
Temperature: T 61 F	Ft. .9990		Eqv. From Tables 1.020	Gravity .670	Fg .9463

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_d \times F_{gv}$

$$Q = (12.365)(192)(.9990)(.9463)(1.020)$$

2289

MCF/D

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

$$Aof = \left(\frac{3,553,225}{3,157,584} \right)^n (1.1252)^{.75} (2289) = (1.0925)(2289)$$

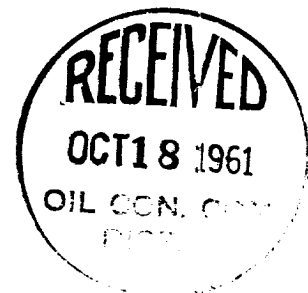
Aof **2501**

MCF/D

DESIGNED BY **Jesse B. Goodwin**

WITNESSED BY

Checked by: **W. D. Dawson**



Lewis D. Galloway
Lewis D. Galloway