

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE November 12, 1957

Operator El Paso Natural Gas		Lease Warren No. 2A (P)	
Location 917'N, 1125'E, Sec. 23-28-9		County San Juan "	State New Mexico
Formation Pictured Cliffs		Pool Undesignated- <i>After</i>	
Casing: Diameter 7-5/8 5-1/2	Set At: Feet 4875 2521 - 4919	Tubing: Diameter 1-1/4	Set At: Feet 2484
Pay Zone: From 2416	To 2468	Total Depth: 4917 - c/o 4875	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG PC 804	12 - PSIA	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG PC 804
816			816
Flowing Pressure: P, PSIG 202	12 - PSIA		Working Pressure: Pw, PSIG 205
214			217
Temperature: T, F 58			Fpv (From Tables) 1.020
.850			Gravity .635

Initial SIPT (MV) - 1015 psig. Final SIPC (MV) - 1019 psig

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

$$Q = 12.365 \times 214 \times 1.0019 \times .9721 \times 1.020$$

2629 MCF/D

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

$$Aof = \left(\frac{665,856}{618,767} \right)^n = 1.0761^{.35} \times 2629 = 1.0643 \times 2629$$

Aof 2798 MCF/D

RECEIVED BY Robert R. Davis

WITNESSED BY _____

cc: E. S. Oberly (6)

L. D. Galloway
L. D. Galloway



AZTEC DISTRICT OFFICE

10. Order 3