

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 23, 1960

Operator El Paso Natural Gas Products Co.		Lease Frontier Pool Unit No. 1-E (D)	
Location SW 4-27-11		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 7"	Set At: Feet 6756	Tubing: Diameter 2"	Set At: Feet 6497
Pay Zone: From 6545	To 6587	Total Depth 6756	Shut-In 7/13/60
Stimulation Method Sand Oil		Flow Through Tubing X	

Choke Size, inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1061 (G)	- 12 = PSIA 1073	Days Shut-In 15	Shut-In Pressure, Tubing, PSIG 2017 (D)
Flowing Pressure: P, PSIG 373	- 12 = PSIA 385	Working Pressure: P _w , PSIG Calc.	- 12 = PSIA 619
Temperature: T 79 °F	n .75	Exp. from Tables 1.039	Gravity .681
F _t = .9822		F _g = .9393	

Initial SIPT (G) = **762 psig**
 Final SIPC (G) = **1084 psig**

Packer at **6490**CHOKE VOLUME = Q C x P_i x F_t x F_g x F_p

$$Q = 12.365 \times 385 \times .9822 \times .9393 \times 1.039 = 4563 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{4116841}{3733680} \right)^n$$

$$1.1026^{.75} \times 4563 = 1.0759 \times 4563$$

$$A_{of} = 4909 \text{ MCF/D}$$

Slight Paraffin Melt.

TESTED BY D. MortensenWITNESSED BY Van DykeChecked By R. Nickell

Lewis D. Galloway
 L. D. Galloway