

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **September 3, 1958**

Operator El Paso Natural Gas		Lease San Juan 27-5 Unit 28 (P)	
Location 8008, 800W; 25-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito PC	
Casing: Diameter 7-5/8	Set At: Feet 3634	Tubing: Diameter 1-1/4	Set At: Feet 3505
Pay Zone: From 3476	To 3514	Total Depth: c/o 5771 5798	Shut-in 8/14/58
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365		5-1/2 liner 3569 - 5796	
Shut-in Pressure, Casing, PSIG 945 (PC)	- 12 = PSIA 957	Days Shut-in 20 (PC)	Shut-in Pressure, Tubing, PSIG 945 (PC)	- 12 = PSIA 957
Flowing Pressure: P, PSIG 714	- 12 = PSIA 726		Working Pressure: P _w , PSIG 755	- 12 = PSIA 767
Temperature: T, °F 75	n .85		F _{pv} (From Tables) 1.070	Gravity .663

Initial SIPT (MV) = 1112 psig
Final SIPT (MC) = 1120 psig

Packer at 3622
2" at 5689

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

$$Q = 12.365 \times 726 \times .9859 \times .9535 \times 1.070 = 9,030 \text{ MCF/D}$$

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

$$A_{of} = 919849 \left(\frac{2.7959}{2.7959^2 - 2.396^2} \right)^{.85} (9030) = (2.396)(9030)$$

Aof **21,636** MCF/D

TESTED BY **S. V. Roberts**

WITNESSED BY



Lewis D. Galloway
L. D. Galloway