

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **August 9, 1961**

Operator La Plata Gathering System		Lease San Juan 32-5 No. 1-27	
Location NE/4 Sec. 27-32N-6W		County Rio Arriba	State New Mexico
Formation Dakota		Basin Basin	
Casing: Diameter 5-1/2" O.D.	Set At: Feet 7895	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 7645
Pay Zone 7666	To 7812	Total Length 7895	Shut In 8-2-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Orifices 0.750	Choke Constant, C 12.365	Shut-In Pressure, Casing, PSIG 2592	Shut-In Pressure, Tubing, PSIG 2592
Flowing Pressure, Casing, PSIG 87	Flowing Pressure, Tubing, PSIG 352	Working Pressure, Pw, PSIG 364	Gravity 0.600
Temperature, F 73	Temperature, F 99	Fpv From Tables 1.006	Fg 1.000
Ft .9877	Ft 0.75		

CHOKE VOLUME $Q = C \times P_r \times F_t \times F_g \times F_{pv}$

$$Q = (12.365)(99)(.9877)(1.000)(1.006)$$

1216

MCF/D

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

$$Aof = \left(\frac{6,780,816}{6,648,320} \right)^n$$

$$(1.0199)^{.75}(1216) = (1.0149)(1216)$$

Aof

1234

MCF/D

By **R. L. Nickell, Jr.**

Witnessed by **Al Johnson**

L. D. Galloway
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