

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **September 1, 1961**

Operator El Paso Natural Gas Company		Lease San Juan 30-6 No. 37	
Location 990'E, 1650'E, Sec. 10-30N-6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7" O.D.	Set At: Feet 3589	Tubing: Diameter 1-1/4" O.D.	Set At: Feet 5691
Pay Zone: From 5520	To 5703	Total Depth 5865 C/O 5828	Shut In 8-23-61
Stimulation Method Sand/Water Frac.		Flow Through Casing X	
		Flow Through Tubing	

Choke Size, Inches .75		Choke Constant: C 12.365		4-1/2" Liner 3503 to 5864	
Shut-In Pressure, Casing, PSIG 1122	+ 12 PSIA 1134	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 1123	+ 12 PSIA 1135	
Flowing Pressure: P, PSIG 307	+ 12 PSIA 319		Working Pressure: P _w , PSIG 371	+ 12 PSIA 383	
Temperature: T, F 67	F _r .9933 .75		F _{pv} (From Tables) 1.022	Gravity .580	F _g 1.017

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

$$Q = (12.365)(319)(.9933)(1.017)(1.022)$$

4072

MCF/D

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

$$Aof \left(\frac{1,288,225}{1,141,536} \right)^n = (4072)(1.1285)^{.75} = (4072)(1.0949)$$

Aof **4458**

MCF/D

TESTED BY **D. E. Mortensen**

WITNESSED BY

Calculated by: **W. D. Dawson**

Lewis D. Galloway
L. D. Galloway

