

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 15, 1962

Operator El Paso Natural Gas Company		Lease Rincon No. 165	
Location 1450'N, 1600'E, Sec. 27-27-6		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.5	Set At: Feet 7600	Tubing: Diameter 2.375	Set At: Feet 7509
Pay Zone: From 7368	To 7548	Total Depth: 7610	Shut In 7-29-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, 2699	PSIG · 12 · PSIA 2711	Days Shut-In 17	Shut-In Pressure, Tubing 2677
Flowing Pressure: P 295	PSIG · 12 · PSIA 307	Working Pressure: P _w 1107	PSIG · 12 · PSIA 1119
Temperature: T 67 F	n Ft .9933	F _{pv} (From Tables) 1.033	Gravity .680 F _g = .9393

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

$$Q = (12.365)(307)(.9933)(.9393)(1.033) = 3659 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{7,349,521}{6,097,360} \right)^n (1.2053)^{.75} (3659) = (1.1503)(3659)$$

$$A_{of} = 4209 \text{ MCF/D}$$

NOTE: Slugs of Water and Distillate throughout test.TESTED BY T. B. Grant

WITNESSED BY

Checked by: C. R. Wagner

Lewis D. Galloway
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