

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 15, 1962

Operator El Paso Natural Gas Company		Lease Rincon No. 155	
Location 990'S, 590'W, Sec. 17-27-6		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.5	Set At: Feet 7688	Tubing: Diameter 2.375	Set At: Feet 7271
Pay Zone: From 7363	To 7409	Total Depth: 7688	Shut In 7-27-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365		"Baker "DA" Packer at 7310'"	
Shut-In Pressure, Casing, 1033	PSIG · 12 · PSIA 1045	Days Shut-In 19	Shut-In Pressure, Tubing 2486	PSIG · 12 · PSIA 2498	
Flowing Pressure: P 235	PSIG · 12 · PSIA 247		Working Pressure: P _w Calc.	PSIG · 12 · PSIA 535	
Temperature: T 69 F	n Ft .9915		F _p (From Tables) 1.027	Gravity .700	F _g .9258

CHOKE VOLUME $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$$Q = (12.365)(247)(.9915)(.9258)(1.027)$$

2879 MCF/D

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

$$Aof = \left(\frac{6,240,004}{5,953,779} \right)^n (1.0480)^{.75} (2879) = (1.0359)(2879)$$

Aof 2982 MCF/D



NOTE: Tubing is set on a Packer. Final working pressure is therefore a calculated value.

TESTED BY T. B. Grant

WITNESSED BY

Checked by: C. R. Wagner

Lewis D. Galloway
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