

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 2, 1962

Operator El Paso Natural Gas Company		Lease Rincon No. 167	
Location 1100'N. 1650'E. Sec. 13-27-7		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4.50	Set At: Feet 7751	Tubing: Diameter 2.375	Set At: Feet 6390
Play Zone: From 7493	To 7708	Total Depth: 7752	Shut In 7-23-62
Stimulation Method Sand/Water Frac.		Flow Through Casing 7752	
		Flow Through Tubing X	

Choke Size, Inches 0.750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2644	PSIA 2656	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG 2582
Flowing Pressure: P _r , PSIG 230	PSIA 242	Working Pressure: P _w , PSIG 951	PSIA 963
Temperature: 70 F	.9905	F _{pv} (From Tables) 1.023	Gravity .669 F _g .9498

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

$$Q = (12.365)(242)(.9905)(.9498)(1.023)$$

2880

MCF D

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

$$A_{of} = \left(\frac{7,054,336}{6,126,967} \right)^n$$

$$(1.1513)^{.75}(2880) = (1.1116)(2880)$$

A_{of} 3201

MCF D

TESTED BY Jesse B. Goodwin

WITNESSED BY

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