

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 27, 1963

Operator El Paso Natural Gas Company		Lease San Juan Unit 28-7 No. 132	
Location 1650'S, 1550'W, Sec. 15, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7683	Tubing: Diameter 2.375	Set At: Feet 7191
Pay Zone: From 7418	To 7566	Total Depth: 7686	Shut In 2-5-63
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2398	+ 12 = PSIA 2410	Days Shut-In 22	Shut-In Pressure, Tubing, PSIG 2370
Flowing Pressure: P, PSIG 309	+ 12 = PSIA 321	Working Pressure, P _w , PSIG 910	+ 12 = PSIA 922
Temperature: T 64 °F	F _r .9962	F _{pv} (From Tables) 1.052	Gravity .800 F _g = .8660

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

$$Q = (12.365)(321)(.9962)(.8660)(1.052) = \underline{3609} \text{ MCF/D}$$

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

$$\text{Aof} \left(\frac{5,808,100}{4,958,016} \right)^n = (1.1714)^{.75} (3609) = (1.1260)(3609)$$

NOTE: Heavy spray of distillate throughout test.

$$\text{Aof} \quad \underline{4064} \quad \text{MCF/D}$$

TESTED BY Hermen E. McAnally

WITNESSED BY _____

Checked by: Tom B. Grant



Lewis D. Galloway
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