

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 20, 1958

Operator El Paso Natural Gas		Lease Rincon 105	
Location 1650S, 990E; 17-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5-1/2	Set At: Feet 3313	Tubing: Diameter 1-1/4	Set At: Feet 3214
Pay Zone: From 3222	To 3244	Total Depth: 3313	Shut-In 5/12/58
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1054	+ 12 = PSIA 1066	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1054
Flowing Pressure: P PSIG 201	+ 12 = PSIA 213		Working Pressure: P _w PSIG 219
Temperature: T °F 69			F _{pv} (From Tables) 1.022
			Gravity .688

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

$$Q = 12.365 \times 213 \times .9915 \times .9359 \times 1.022 = 2498 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1136356}{1082995} \right)^n = (1.0492)^{.85} \times 2498 = 1.0417 \times 2498$$

$$Aof = 2602 \text{ MCF/D}$$

TESTED BY Jess Goodwin

WITNESSED BY _____

Checked By S. V. Roberts

Lewis D. Galloway
L. D. Galloway