

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 20, 1958

Operator El Paso Natural Gas		Lease Rincon No. 111	
Location 1748N, 1190W; 20-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco Pictured Cliffs	
Casing: Diameter 5-1/2	Set At: Feet 3154	Tubing: Diameter 1-1/4	Set At: Feet 3094
Pay Zone: From 3046	To 3072	Total Depth: 3165	Shut-In 5/8/58
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 1039	- 12 - PSIA 1051	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1040
Flowing Pressure: P PSIG 116	- 12 - PSIA 128	Working Pressure: P _w PSIG 136	- 12 - PSIA 148
Temperature: T 70	F _g .850	F _{pv} (From Tables) 1.012	Gravity .688

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

$$Q = 14.1603 \times 128 \times .9905 \times .9359 \times 1.012 = 1700 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1106704}{1084800} \right)^n = (1.0201)^{.85} \times 1700 = 1.0171 \times 1700 =$$

Aof 1729 MCF/DTESTED BY Jess Goodwin

WITNESSED BY _____

Checked By Robert R. Davis

Lewis D. Galloway
L. D. Galloway