

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 7, 1958

Operator El Paso Natural Gas		Lease Rincon Unit No. 114	
Location 1790S, 1800W, 20-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 5-1/2"	Set At: Feet 3211	Tubing: Diameter 1-1/4	Set At: Feet 3110
Pay Zone: From 3090	To 3122	Total Depth: 3222	Shut-in 2-21-58
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 1100	- 12 = PSIA 1112	Days Shut-In	Shut-In Pressure, Tubing PSIG 1100	- 12 = PSIA 1112	
Flowing Pressure: P PSIG 107	- 12 = PSIA 119		Working Pressure: P _w PSIG 109	- 12 = PSIA 121	
Temperature: T °F 56	n = 85		F _{pv} (From Tables) 1.012	Gravity .684	

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

$$Q = 12.365 \times 119 \times 1.0039 \times .9393 \times 1.012 = \underline{1404} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1236544}{1221903} \right)^n = (1.0119)^{.85} \times 1404 = 1.0101 \times 1404$$

$$Aof = \underline{1418} \text{ MCF/D}$$

TESTED BY Jess Goodwin

WITNESSED BY _____

Checked By: S. V. Roberts

Lewis D. Galloway
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