

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 9, 1956

Operator El Paso Natural Gas Company		Lease Rincon # 78	
Location 1460'N, 1840'E, Sec. 14-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing: Diameter 5 1/2	Set At: Feet 5600	Tubing: Diameter 2	Set At: Feet 5530
Pay Zone: From 4818	To 5526	Total Depth: 5600 - c/o - 5540	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches: 0.750		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 1099	- 12 = PSIA 1111	Days Shut-In 13 days	Shut-In Pressure, Tubing PSIG 1092	- 12 = PSIA 1104	
Flowing Pressure: P PSIG 204	- 12 = PSIA 216		Working Pressure: P _w PSIG 568	- 12 = PSIA 580	
Temperature: T F 67	n = 0.75		F _{pv} (From Tables) 1.021	Gravity .670	

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 14.1605 \times 216 \times .9933 \times .9463 \times 1.021 = 2935 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,234,321}{897,921} \right)^{0.75} \times 2935 = 1.270 \times 2935$$

Act 3727 MCF/DTESTED BY Tom Grant

WITNESSED BY _____


L. D. Galloway
L. D. Galloway