

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 5, 1957

Operator El Paso Natural Gas Company		Lease Cundiff No. 1-X	
Location 990'N, 980'E, Sec. 19-32-12		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5 1/2	Set At: Feet 4700	Tubing: Diameter 2	Set At: Feet 4635
Pay Zone: From 4336	To 4490	Total Depth: 4700 - c/o 4654	
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 1051	- 12 - PSIA 1063	Days Shut-In 12	Shut-In Pressure, Tubing, PSIG 771
Flowing Pressure: P, PSIG 232	- 12 - PSIA 244		Working Pressure: P _w , PSIG 570
Temperature: T, °F 78			Gravity .670
			F _{pv} (From Tables) 1.023

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

$$Q \quad 12.365 \times 244 \times .9831 \times .9463 \times 1.023 \quad 2871 \quad \text{MCF/D}$$

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

$$A_{of} = \left(\frac{1,129,969}{791,245} \right)^n \quad 1.4280^{-.75} \times 2871 = 1.3062 \times 2871$$

$$A_{of} \quad 3750 \quad \text{MCF/D}$$

TESTED BY R. A. Ullrich

WITNESSED BY _____



L. D. Galloway
L. D. Galloway

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