

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 14, 1956

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit # 49	
Location 769'N, 1550'E, Sec. 21-28-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing Diameter 5½	Set At: Feet 5245	Tubing: Diameter 2	Set At: Feet 5159
Perforation From 4426	To 5064	Total Depth: 5142 - c/o - 5179	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 14.1605		
Shut-In Pressure, Casing, PSIG 1076	12 - PSIA 1088	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1068
Flowing Pressure, P, PSIG 312	12 - PSIA		1080
Temperature, T 81			Working Pressure: Pw, PSIG 754
	.75		12 - PSIA 766
		Fpv (From Tables) 1.033	Gravity .690

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

$$Q = 14.1605 \times 324 \times .9804 \times .9325 \times 1.033 = 4333 \text{ MCF/D}$$

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

$$A_{of} = 4333 \left(\frac{1,183,744}{596,988} \right)^n \quad (1.9828)^{.75} \times 4329 = 1.671 \times 4333$$

$$A_{of} = 7240 \text{ MCF/D}$$

K. C. McBride

WITNESSED BY

By:

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