

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 17, 1956

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit # 51	
Location 990'N, 1850'E, Sec. 24-28-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5 1/2	Set At: Feet 5717	Tubing: Diameter 2	Set At: Feet 5633
Pay Zone: From 5078	To 5624	Total Depth 5714' - c/o - 5650'	
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 1069	12" PSIA 1081	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 1061
Flowing Pressure: P, PSIG 331	12" PSIA 343	Working Pressure: P _w , PSIG 787	12" PSIA 799
Temperature: T, F 74	.75	F _{pv} (From Tables) 1.037	Gravity .690

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

$$Q = 14.1605 \times 343 \times .9868 \times .9325 \times 1.037 = 4635 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,168,561}{530,160} \right)^n (2.2042)^{.75} \times 4635 = 1.81 \times 4635$$

$$Aof = 8,389 \text{ MCF/D}$$

TESTED BY **K. C. McBride**WITNESSED BY **C. R. Wagner**

Lewis D. Galloway
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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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