

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

OLD WELL WORKED OVER

DATE June 7, 1957

Operator El Paso Natural Gas		Lease Michener No. 1-A	
Location 990'N, 1650'E, Sec. 33-28-9		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5 1/2	Set At: Feet 4393	Tubing: Diameter 1 1/4	Set At: Feet 2974
Pay Zone: From 2974	To 3010	Total Depth: c/o - 4393	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 721	PSIG - 12 - PSIA 733	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 722
Flowing Pressure: P, PSIG 249	PSIG - 12 - PSIA 261		Working Pressure: P _w , PSIG 256
Temperature: °F 72	°F .85		Gravity .635
			F _{pv} From Tables 1.022

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_3 \times F_4$

$$Q = 12.365 \times 261 \times .9887 \times .9721 \times 1.022 = 3170 \text{ MCF/D}$$

OPEN FLOW $Aof = Q \left(\frac{P_1^2 - P_w^2}{P_c^2 - P_w^2} \right)^n$

$$Aof = \left(\frac{538,756}{466,932} \right)^n \times 1.1538^{.85} \times 3170 = 1.1291 \times 3170$$

Aof **3579** MCF/D



PREPARED BY R. A. Ullrich

WITNESSED BY _____

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