

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE September 4, 1957

Operator El Paso Natural Gas Company		Lease Rincon No. 99	
Location 1025'N, 1025'E, Sec. 27-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8"	Set At: Feet 3324	Tubing: Diameter 1-1/4	Set At: Feet 3167
Pay Zone: From 3132	To 3180	Total Depth: 5520 - c/o 5510	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365	5-1/2" liner - 3255-5523	
Shut-In Pressure, Casing, PSIG 1035	- 12 = PSIA 1047	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 1035
Flowing Pressure: P PSIG 281	- 12 = PSIA 293		Working Pressure: Pw PSIG 294
Temperature: T °F 68	n = 0.85	Fpv (From Tables) 1.027	+ 12 = PSIA 1047
			+ 12 = PSIA 306
			Gravity .645

SIPT (MV) - Initial 1047 psig; Final 1050 psig. Packer at 3361. Sleeve at 3167. 3" at 5473

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = 12.365 \times 293 \times .9924 \times .9645 \times 1.027 = \underline{3561} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,096,209}{1,002,573} \right)^n = 1.0933^{.85} \times 3561 = 1.0788 \times 3561$$

$$Aof = \underline{3842} \text{ MCF/D}$$

TESTED BY S. V. Roberts and R. R. Davis

WITNESSED BY No witness available

cc: E. J. Coal, Jr. (6)

L. D. Galloway
L. D. Galloway

