

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE September 12, 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 Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3324	Tubing: Diameter 2"	Set At: Feet 5473
Pay Zone: From 4824	To 5494	Total Depth: 5520 - c/o 5510	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365		5-1/2" liner 3255-5523	
Shut-in Pressure, Casing, PSIG PC 1046	- 12 = PSIA 1058	Days Shut-In 23	Shut-In Pressure, Tubing, PSIG MY - 1052	- 12 = PSIA 1064	
Flowing Pressure: P, PSIG 355	- 12 = PSIA 367		Working Pressure: P _w , PSIG Calc.	- 12 = PSIA 734	
Temperature: T, °F 66	n: 0.75		F _{pv} (From Tables) 1.038	Gravity 0.670	

SIPC (PC) Initial - 1046 psig; Final - 1045 psig. Packer at 3361. Sleeve - 3167
1-1/4" - 3167

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 367 \times .9943 \times .9463 \times 1.038 = 4432 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,132,096}{593,340} \right)^n \quad 1.9080^{.75} \times 4432 = 1.6230 \times 4432$$

$$A_{of} = 7193 \text{ MCF/D}$$

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

WITNESSED BY _____

cc: E. S. Oberly (6)

L. D. Galloway
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