

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 24, 1969

Operator El Paso Natural Gas Co.		Lease Canyon Largo Unit No. 144	
Location 850 N, 990 W, S 17, T25N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7460	Tubing: Diameter 2.375	Set At: Feet 7383
Pay Zone: From 7112	To 7384	Total Depth: 7460	Shut In 11-10-69
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2336	+ 12 = PSIA 2348	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2377	+ 12 = PSIA 2389	
Flowing Pressure: P PSIG 316	+ 12 = PSIA 316		Working Pressure: P _w PSIG 1067	+ 12 = PSIA 1079	
Temperature: T = 83 °F	n = 0.75		F _{pv} (From Tables) 1.029	Gravity .670	F _g = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = 12.365 \times 316 \times .9786 \times .9463 \times 1.029 = 3723 \text{ MCF/D}$$

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

Note: Heavy fog initially, unloaded slugs of water and dist. for 3 min. Med. to heavy fog of water and dist. throughout test.

$$Aof = \left(\frac{5707321}{5607465} \right)^n = (1.0178)^{.75} \times 3723 = 1.0133 \times 3723$$

$$Aof = 3773 \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY _____



D. R. Keulevich