

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 11, 1968

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 169	
Location 1650'S, 1840'W, Sec. 26, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7674	Tubing: Diameter 2.375	Set At: Feet 7335
Pay Zone: From 7364	To 7534	Total Depth: 7674	Shut In 11-30-68
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2292	+ 12 = PSIA 2304	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2452	+ 12 = PSIA 2464	
Flowing Pressure: P PSIG 214	+ 12 = PSIA 226		Working Pressure: P _w PSIG 945	+ 12 = PSIA 957	
Temperature: T = 72 °F	n = Ft = .9887		Fpv (From Tables) 1.020	Gravity .640	Fg = .9682

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

$$Q = (12.365)(226)(.9682)(.9887)(1.020) = \underline{2729} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6071296}{5155447} \right)^n = (1.1776)(2729)^{.75} = (1.1303)(2729)$$

NOTE: Blew heavy fog of water and distillate for entire test.

$$Aof = \underline{3085} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinWITNESSED BY Robert E. StaufferCalculated by George A. Lippman

H. L. Kendrick
H. L. Kendrick

