FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE ___May 31, 1972___

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 16-Y	
Location 819' S, 1145' W Sec. 17 - 27N - 4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8021	Tubing: Diameter 1.900	Set At: Feet 7906
Pay Zone: From 1732	To 7938	Total Depth: 8021	Shut In 5-21-72
Stimulation Method S.W.F.		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365				
Shut-In Pressure, Casing, PSIG 1766	+ 12 = PSIA 1778	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2310		+ 12 = PSIA 2322
Flowing Pressure: P PSIG 338	+ 12 = PSIA 350		Working Pressure: Pw PSIG 765		+ 12 = PSIA 777
Temperature: T = 74 °F Ft = .9868	n = .75		Fpv (From Tables) 1.037		Gravity .695 Fg = .9292

CHOKE VOLUME = Q = $C \times P_t \times F_t \times F_g \times F_{pv}$

$$Q = 12.365 \times 350 \times .9868 \times .9292 \times 1.037 = \underline{\quad 4115 \quad} \text{ MCF/D}$$
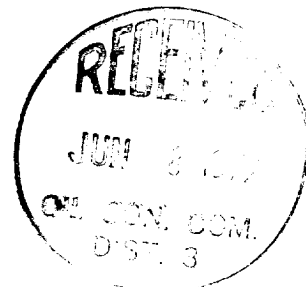
OPEN FLOW = Aof = $Q \left(\dfrac{P_c^2}{P_c^2 \quad P_w^2} \right)^n$ NOTE: Well produced a light mist of water throughout the test.

$$Aof = \left(\frac{5391684}{4787955} \right)^n = (1.1261)^{.75} (4115) = (1.0932)(4115)$$

$$Aof = \underline{\quad 4498 \quad} \text{ MCF/D}$$

TESTED BY ___B. J. Broughton___

WITNESSED BY_____

L. E. Mabe, Jr.