FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE __November 14, 1968__

Operator			Lease		
El Paso Natural Gas Company			Vandewart "A" No. 4 (OWWO)		

Location			County	State
790'N, 1550'E, Sec. 13, T-29-N, R-8-W			Rio Arriba	New Mexico

Formation			Pool	
Mesa Verde			Blanco	

Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet
4.500	5547	2.375	5216

Pay Zone: From	To	Total Depth:	Shut In
4776	5498	5547	10-25-68

Stimulation Method	Flow Through Casing	Flow Through Tubing
Sand Water Frac		X

Choke Size, Inches	Choke Constant: C	
.750	12.365	

Shut-In Pressure, Casing, PSIG	+12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing PSIG	+12 = PSIA
884	896	20	886	898

Flowing Pressure: P PSIG	+12 = PSIA	Working Pressure: P_w PSIG	+12 = PSIA
368	380	801	813

Temperature: $T = 72$ °F $F_t = 9887$	n = .75	Fpv (From Tables) 1.041	Gravity .690 $F_g = .9325$

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

$$Q = (12.365)(380)(.9887)(.9325)(1.041) = \underline{\hspace{2cm} 4510 \hspace{2cm}} \text{ MCF/D}$$

OPEN FLOW = $A_{of} = Q \left(\dfrac{P_c^2}{P_c^2 \quad P_w^2} \right)^n$

$$A_{of} = \left(\frac{806404}{145435} \right)^n = (4510)(5.5447)^{.75} = (4510)(3.6133)$$

Note: The well produced a very light fog of water and distillate throughout the test.

$$A_{of} = \underline{\hspace{1cm} 16296 \hspace{1cm}} \text{ MCF/D}$$

TESTED BY __C.R. Wagner__

Calculated
WITNESSED BY __H. E. McAnally__

Checked by __G. A. Lippman__

H. L. Kendrick