## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

DATE November 14, 1968

Operator El Paso Natural Gas Company		Vandewart "A" No. 4 (OUNO)		
Location 790'N, 1550'E,	Sec. 13, T-29-N, R-8-W	County Rio Arriba	State New Mexico	
Formation Mesa Verde		Pool Blanco		
Casing: Diameter 4.500	Set At: Feet 5547	Tubing: Diameter 2 • 375	Set At: Feet 5216	
Pay Zone: From 4776	т <b>.</b> 5498	Total Depth: 5547	Shut In 10-25-68	
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, 884	PSIG	+ 12 = PSIA 896	Days Shut-In 20	Shut-In Pressure, Tubing 886	PSIG	+ 12 = PSIA 898	
Flowing Pressure: P 368	PSIG	+ 12 = PSIA 380		Working Pressure: Pw 801	PSIG	+ 12 = PSIA 813	
Temperature: T = 72 °F Ft=	-9887	•75		Fpv (From Tables) 1.041		Gravity •690	Fg= •9325

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

$$Q = (12.365)(380)(.9887)(.9325)(1.041) = 4510$$
 MCF/D

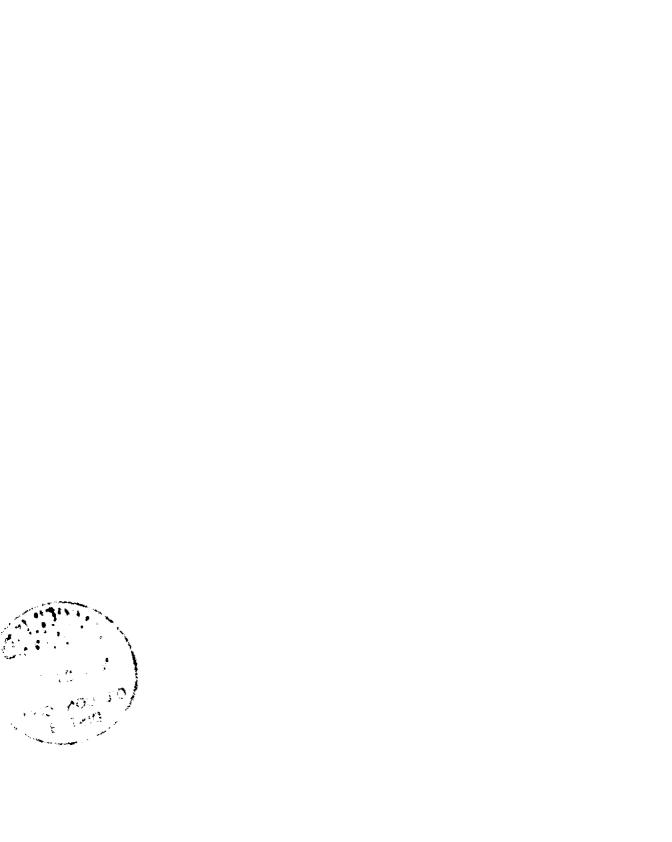
OPEN FLOW = Aof = Q 
$$\begin{pmatrix} 2 & P_c & P_c & P_w \end{pmatrix}$$

Aof = 
$$\left( \begin{array}{c} 806404 \\ \hline 145455 \end{array} \right)^{\mathbf{n}} = (4510)(5.5447)^{.75} = (4510)(3.6133)$$

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

Calculated
WINNESSED BY H. E. McAnally
Checked by G. A. Lippman

The Kendrick



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