## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

## DATE February 22, 1977

Operator Koch Industries		Walker #1R			
Location NW 13-31-10		County San Juan	New Mexico		
Fermation Mesa Verde		Pool Blanco			
Casing: Diameter 4 1/2	Set At: Feet 5660 t	Tubing: Dlameter 2 3/8"	Set At: Feet 5977 !		
Pay Zone: From 4916	т <b>•</b> 5996	Total Depth: 6039	Shut In 2-12-77		
Stimulation Method Sandwater Frac	įs.	Flow Through Casing	Flow Through Tubing XX		

Choke Size, Inches . 750		Choke Constant: C 12,365		· ·			
Shut-In Pressure, Casing,	PSIG 705	+ 12 = PSIA 717	Days Shut-In 10	Shut-In Pressure, Tubing	PSIG 704	+ 12 = PSIA 716	
Flowing Pressure: P	PSIG 221	+ 12 = PSIA 233		Working Pressure: Pw	PSIG 616	+ 12 = PSIA 628	
Temperature: T= 70 °F Ft=	.9905	n = .75		Fpv (From Tobles) 1.024		Gravity ,670	Fg = .9463

CHOKE VOLUME = Q = C x P, x F, x Fg x Fpv

Q = 12.365(233)(.9905)(.9463)(1.024)

= <u>2765</u> MCF/D

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

$$Aof = 0 \left( \frac{514089}{119705} \right)^{n} = (2765)(4.2946).$$



Aof = 8249 MCF/D

Note: Very light fog of oil and water

throughout test.

Jim Thurstonson & C. R. Wagner

WITNESSED BY Jack Jackson- Koch Ind.

Well Test Engineer

Well Test Engineer