## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

DATE \_\_\_ January 17, 1975

Operator		Lease			
El Paso Natural	Gas Company	San Juan 27-4 Unit	#94		
Location		County	State		
454/S, 950/W, Sec. 3, T27N, R4W		Rio Arriba	New Mexico		
Formation		Pool			
Dakota		Basin			
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet		
4.500	8138*	1.990	8064'		
Pay Zone: From	То	Total Depth: PBTD	Shut In		
79221	8072'	8138' 8130	1-10-75		
Stimulation Method		Flow Through Casing	Flow Through Tubing		
Sandwater Frac		l xx	l l		

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	
2239		2251	7	977		989	
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA	
94		106		586		598	
Temperature:		n =		Fpv (From Tables)		Gravity	
T= 52 °F Ft=	1.0078	.75		1.010		.655	$F_9 = 0.9571$

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

Q = 12.365(106)(1.0078)(0.9571)(1.010)

= <u>1277</u> MCF/D

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

Aof = 
$$Q\left(\begin{array}{c} 5067001 \\ 4709397 \end{array}\right)^{n} = 1277(1.0759)^{-.75} = 1277(1.0564)$$



Note: After the first 15 minutes the well produced a slug of water.

During the rest of the test the well blew a heavy fog of water.

TESTED BY F. Johnson

WITNESSED BY L. Fothergill

Well Test Engineer