EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE June 19, 1978

Operator		Lease Mudge #3A (PM)		
El Paso Natural Gas Company Location NW 9-31-11 Formation Mesa Verde				
		County San Juan	State	
			New Mexico	
		Pool Blanco		
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet	
4.500	552.3 *	2 3/8	5403	
Pay Zone: From	То	Total Depth:	Shut In	
5071	53931	5523	6-12-78	
Stimulation Method		Flow Through Casing	Flow Through Tubing	
Sandwater Frac			XXX	

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	-
			7		622	634	
Flowing Pressure: P 262	PSIG	+ 12 = PSIA 274		Working Pressure: Pw	PSIG	+ 12 = PSIA	
Temperature:		n =		Fpv (From Tables)		542 Gravity	
T= 67 °F F+=	.9933	. 75		1.026		.650 Fg = .90	608

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

$$Q = 12.365(274)(.9933)(.9608)(1.026) = 3317 MCF/D$$

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

Aof = Q
$$\left(\begin{array}{c} 401956 \\ \hline 108192 \end{array}\right)^{n}$$
 = (3.7152) $\cdot 75_{=(3317)=(2.6760)(3317)}$

Note: Well blew a very light fog of water throughout test. Well vented 322 MCF to the atmosphere during the test.

TESTED BY D. Wright

WITNESSED BY______