OPEN FLOW TEST DATA

DATE September 15, 1977

Operator		Lease	l.ease		
El Paso Natural Gas Company		San Juan 27-4 Unit #109			
Location		County	State		
SE 23-27-04		Rio Arriba	New Mexico		
ormation		Pool			
Pictured Cliffs		Tapacito Ext.			
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet		
4 1/2	6449'	1 1/4	4031'		
Pay Zone: From	То	Total Depth:	Shut In		
3956	4028'	64991	8-3-77		
Stimulation Method		Flow Through Casing	Flow Through Tubing		
Sandwater Frac		XX			

Cheke-Size, Inches 2.750'', 4'' M.R.		Choke Constant: C 41.10				
				Tested through a 3/4" variable choke		
Shut-In Pressure, Casing, 1102	PSIG	+ 12 = PSIA 1114	Days Shut-In	Shut-In Pressure, Tubing 1099	PSIG	112 = PSIA 1111
Flowing Pressure: P 34 M.R.; 117 W.H.	PSIG	+ 12 = PSIA 46 M.R.,	129 W.H.	Working Pressure: Pw		i+ 12 = PSIA 151
Temperature;		n =		Fpv (From Tables)		Gravity
T= 56 °F Ft=1	.0039	0.85		1.004		0.690 Fg = 1.204

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

Q = Calculated from orifice meter readings = 1353 MCF/D

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

$$Aof = Q \left(\frac{1240996}{1223835} \right)^{n} = (1353)(1.0140)^{.85} = (1353)(1.0140)^{01} OIS^{T}.$$

1369 ____ MCF/D Note: The well produced no liquids during the test. The well produced 247 MCF of gas during the test.

TESTED BY _____D. Howell

WITNESSED BY_____