EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE <u>December 28, 1973</u>

Operator El Paso Natural Gas Company Location 1500/S, 820/W, Sec. 33, T29N, R5W Formation Dakota		San Juan 29-5 Unit #66		
		County Rio Arriba	State New Mexico	
		Pool Basin		
Casing: Diameter 4.500	Set At: Feet 7955 1	Tubing: Diameter 1 1/2"	Set At: Feet 7878 !	
Pay Zone: From 7742	To 7900	Total Depth: 7955	Shut in 12-17-73	
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing	

Choke Size, Inches		Choke Constant: C					
.750		12.365					
Shut-In Pressure, Casing, 2582	PSIG	+ 12 = PSIA 2594	Days Shut-In 10	Shut-In Pressure, Tubing 2580	PSIG	+ 12 = PSIA 2592	
Flowing Pressure: P	PSIG	+ 12 = PSIA 344		Working Pressure: Pw 512	PSIG	+ 12 = PSIA 524	
Temperature:	1.002	n = .75		Fpv (From Tables) 1.028		Gravity .595	Fg = 1,0041

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

$$Q = (12.365)(344)(1.002)(1.0041)(1.028)$$

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

$$Aof = Q \left(\frac{P_c}{P_c^2 P_w^2} \right)$$

$$Aof = Q \left(\frac{6728836}{6454260} \right)^n = 4561(1.0425)^{-75} = 4561(1.0317) OIL CON. COM. DIST. 3$$

Aof = 4706 MCF/D Note: Medium fog of drip and water.

TESTED BY Norton

WITNESSED BY_____

William D. Welch

Well Test Engineer