## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

DATE September 10, 1973

Operator El Paso Natural Gas Company  Location 1160/N, 1635/E, Sec. 31, T-27N, R5W  Formation Dakota		San Juan 27-5 Unit #166		
		County Rio Arriba	State New Mexico	
		Pool Basin		
Casing: Diameter 4.500	Set At: Feet 7556 '	Tubing: Dlameter 1 1/2	Set At: Feet 74781	
Pay Zone: From 7286	To 7486'	Total Depth: 7556	Shut In 9-1-73	
Stimulation Method Sandwater Frac.		Flow Through Casing X	Flow Through Tubing	

Choke Size, Inches Choke Constant: C .750 12.365						
Shut-In Pressure, Casing, 2672	PSIG	+ 12 = PSIA 2684	Days Shut-In 9	Shut-In Pressure, Tubing 1211	PSIG	+ 12 = PSIA 1223
Flowing Pressure: P	PSIG	+ 12 = PSIA 249		Working Pressure: Pw 572	PSIG	+ 12 = PSIA 584
Temperature: T= 69 °F Ft=	.9915	n = .75		Fpv (From Tables) 1.022		Gravity .655 Fg = .9571

CHOKE VOLUME = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = (12.365)(249)(.9915)(.9571)(1.022) = 2986 \text{ MCF/D}$$

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

Aof = 
$$Q$$
  $\left(\frac{7203856}{6862800}\right)^n$  = 2986 (1.0497)  $\cdot 75$  = 2986 (1.0370)  $\left(\frac{75}{8}\right)^n$  SEP 13  $\cdot 9$  (3.19)  $\cdot 75$  = 2986 (1.0370)



Aof	= 3097	MCF/	D
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Note: Well produced a heavy mist of water.

WITNESSED BY\_\_\_\_\_

William D. Welch

Well Test Engineer