## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA



Operator El Paso Natural Gas Company		Lucerne A #4-A		
NW 10-31-10		San Juan	New Mexico	
Formation		Pool		
Mesa Verde		Blanco		
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet	
4 1/2	5668'	2 3/8	5588'	
Pay Zone: From	То	Total Depth:	Shut In	
4519	5600 *	56681	3-2-78	
Stimulation Method		Flow Through Casing	Flow Through Tubing	
Sandwater Frac			xx	

Choke Size, Inches		Choke Constant	t: C				
.750		12.365					
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA	
			18		628	640	
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA	
	230	242			Calc.	481	
Temperature:		n =		Fpv (From Tables)		Gravity	
T= 69 °F Ft	9915	.75		1.023		.650	Fg = .9608

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

= 2916

MCF/D

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

Aof = Q 
$$\left(\begin{array}{c} 409600 \\ \hline 178239 \end{array}\right)^{n}$$
 = (2916)(2.2980)  $^{.75}$  = (2916)(1.8665)

Aof = 5443 MCF/D

Note: Well blew dry gas throughout test. Well vented 283 MCF to the atmosphere during test.

TESTED BY J. Thurstonson

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

C. R. Wagnes
Well Test Engineer