EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE September 17, 1975

Coordina 1500'N, 1650'W, Sec. 4, T30N, R8W		Howell A #3-A		
		County San Juan		New Mexico
Formation Mesa Verde		Pool Blanco		
Casing: Diameter	Set At: Feet 57681	Tubing: Diameter 2,375		Set At: Feet 5713'
Pay Zone: From 4888	т . 5712	Total Depth: 5770 t	PBTD 5751'	Shut In 8-22-75
Stimulation Method Sandwater Frac		Flow Through Casing		Flow Through Tubing XX

Cheke Size, Inches	Choke Constant: C				,
2.500 M.R. 4"	32.64		Tested thru .750" variable choke		
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA
646	658	26	596		608
Flowing Pressure: P PSIG	+ 12 = PSIA	-	Working Pressure: Pw	PSIG	+ 12 = PSIA
WH 222 M.R. 77	WH 234	M.R. 89	580		592
Temperature:	n =	-	Fpv (From Tables)		Gravity
T= 64 °F F+=.9962	. 75		1.009		.653 Fg=1.237

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

Q = Calculated from orifice meter readings = ______ 3044 MCF/D

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

Aof =
$$Q\left(\begin{array}{c} 432964 \\ 82500 \end{array}\right)^{n} = 3044(5.248) \cdot \begin{array}{c} .75 \\ = 3044(3.467) \end{array}$$

Aof = 10555 MCF/D

Note: This well produced 2 bbl of water throughout the test. During the test 370.23 MCF of gas was vented to atmosphere.

TESTED BY R. Hardy & C. Rhames
WITNESSED BY

Well Test Engineer