EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE March 18, 1978

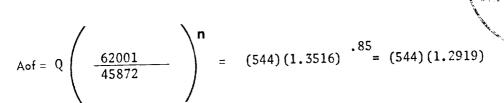
Manana Gas Inc. Location 1850'/S, 690'/E, Sec. 7, T30N, R11W Formation Pictured Cliffs		Charlie #1		
		County San Juan	New Mexico Set At: Feet	
		Pool Aztec		
Casing: Diameter 3.500	Set At: Feet 2099 *	Tubing: Diameter 1.660	2044'	
Pay Zone: From 1991	To 2054'	Total Depth: 2100'	Shut In 3-10-78 Flow Through Tubing	
Stimulation Method Sand water fractured		Flow Through Casing XX	Flow Intendin Forms	

Choke Size, Inches		Choke Constant 12,365	r: C		<u> </u>		
Shut-In Pressure, Casing,	PSIG 237	+ 12 = PSIA 249	Days Shut-In 8	Shut-In Pressure, Tubing	PSIG 231	+ 12 = PSIA 243	
Flowing Pressure: P	PSIG 33	+ 12 = PSIA 45		Working Pressure: Pw	PSIG 115	+ 12 = PSIA 127	
Temperature:	=+=1.0029	n = 0.85		Fpv (From Tables) 1.003		Gravity 0.635	Fg = 0.9721

CHOKE VOLUME = Q = C x Pt x Ft x Fg x Fpv

Q = (12.365)(45)(1.0029)(0.9721)(1.003)

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



Aof = 703 MCF/D

Note: The well produced a light spray of water and a heavy fog of distillate throughout the test.

TESTED BY H. E. McAnally (EPNG)

WITNESSED BY Curtis Little (Manana)

Well Test Engineer