

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 17, 1976

Operator El Paso Natural Gas Company		Lease San Juan 27-4 #73 (MV)	
Location NE Sec. 17 - T 27 N - R - 4 - W		County Rio Arriba	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6396	Tubing: Diameter 2.375	Set At: Feet 6275
Pay Zone: From 5484	To 6231	Total Depth: 6396 PBSD 6379	Shut In 9/8/76
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Plate		Choke Constant: C		Tested through a 3/4" variable choke	
K _{AB} Size, Inches		32.64			
2.500"; 4" M.R.					
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG
-----		---	9	1078	
				+ 12 = PSIA	
				1090	
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: P _w	PSIG
104 M.R.: 299 W.H.		116 M.R.: 311 W.H.		Calculated	
				+ 12 = PSIA	
				343	
Temperature:		n =		F _{pv} (From Tables)	Gravity
T= 49 °F	Ft=1.0108	.75		1.013	.680
				F _g = 1.2127	

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = \frac{2098}{\text{MCF/D}}$$

$$\text{OPEN FLOW} = A_o f = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{1188100}{1070451} \right)^n = (2098) (1.1099)^{.75} = (2098) (1.0813)$$

$$Aof = \frac{2269}{\text{MCF/D}}$$

NOTE: The well produced no liquids during the test and 300 MCF of gas during the test.

TESTED BY T. D. Norton, J. B. Goodwin

WITNESSED BY _____

J. E. M. Bralley
Well Test Engineer