EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE <u>March 23, 1976</u>

Operator Koch Industries Location NE 13-31-10 Formation Pictured Cliffs		Walker #5			
		County San Juan	State New Mexico		
		Pool Blanco			
Casing: Diameter 4 1/2"	Set At: Feet 3548	Tubing: Diameter 2 3/811	Set At: Feet 3372 1		
Pay Zone: From	То	Total Depth:	Shut In		
3367 '	34231	3548'	3-16-76		
Stimulation Method		Flow Through Casing	Flow Through Tubing		
SandwaterFrac			XX		

Choke Size, Inches		Choke Constant: C					
.750		12.365					
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA	
843		855	7	842		854	
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA	
90		102		224		236	
Temperature:		n =		Fpv (From Tables)		Gravity	
T≃ 58 °F F+=	1.0019	. 85		1.009		.670	Fg = .9463

$$Q = (12.365)(102)(1.0019)(.9463)(1.009) = _____$$

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

Aof = Q
$$\left(\begin{array}{c} \frac{729316}{673620} \end{array}\right)^{n}$$
 = (1207) (1.083) $\cdot 85$ = (1207) (1.070)

TESTED BY Koch Undustries

WITNESSED BY Roger Hardy



yell Test Engineer