EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DAT	F	May	21.	1975

Operator El Paso Natural Gas Company		Schumacher #13		
980/S, 1460/W, Sec. 17, T30N, R10W		San Juan	New Mexico	
Formation Gallup		Pool		
		Undesignated		
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet	
4.500	6815'	2.375	6768'	
Pay Zone: From	То	Total Depth: PBTD	Shut In	
6440	6779	6815' 6799	5-7-75	
Stimulation Method		Flow Through Casing	Flow Through Tubing	
Sandwater Frac			XX	

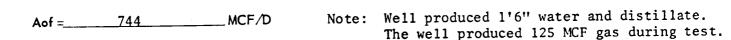
Choke Size, Inches	Choke Constant: C				
2.500 Plate 4" MR	32.64		Tested Through a 3/4" variable choke.		
Shut-In Pressure, Casing, PSI		Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA
1250	1262	14	891		903
Flowing Pressure: P PSI			Working Pressure: Pw	PSIG	+ 12 = PSIA
75 27 MR	87	39 MR	248		260
Temperature:	n =		Fpv (From Tables)		Gravity
T= 75 °F F+= 1.00	n . 75		1.009		.650 Fg = .9608

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

Q = Calculated from orifice meter readings = 720 MCF/D

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

Aof = Q
$$\left(\begin{array}{c} \frac{1592644}{1525044} \end{array}\right)^{n} = 720(1.044)^{-.75} = 720(1.033)$$



TESTED BY Goodwin- Norton

WITNESSED BY C. R. Wagner