EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 2, 1973

Operator El Paso Natural Gas Company		Lease		
		San Juan 27-5 Unit #170		
Location		County	State	
1840/S, 825/W, Sec. 34, T27N, R5W		Rio Arriba	New Mexico	
Formation		Pool		
Dakota		Basin		
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet	
4.500	7690'	1 1/2	7656 '	
Pay Zone: From	То	Total Depth:	Shut In	
7454	7650	7690	10-13-73	
Stimulation Method		Flow Through Casing	Flow Through Tubing	
Sandwater Frac		ll xx		

Cheke Size, Inches	Plate Choke Constant: C				
2.750" P1.; 4" M.R.	41.10		Tested through a 3/4" Variable Choke		
Shut-In Pressure, Casing, PSIC 2650	+ 12 = PSIA 2662	Days Shut-In 20	Shut-In Pressure, Tubing P 1954	SIG + 12	2 = PSIA 1966
Flowing Pressure: P PSIC 57 M.R., 177 W.H.	+ 12 = PSIA 69 M.R.	189 W.H.	Working Pressure: Pw P 517		2 = PSIA 29
Temperature:	n =		Fpv (From Tables)	Gra	vity
T= 68 °F Ft= .992	4 .75		1.008		655 $F_9 = 1.236$

CHOKE VOLUME = Q = $C \times P_t \times F_t \times F_g \times F_{PV}$

Q = Calculated from orifice meter readings = 3043 MCF/D

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

Aof =
$$Q\left(\begin{array}{c} \frac{7086244}{6806403} \end{array}\right)^{n} = (3043)(1.0411)^{-.75} = (3043)(1.0307)$$



Aof = 3136 MCF/D

Note; The well produced 9.5 bbls of 58.6° API Gravity oil and 37 bbls of water during the test.

TESTED BY B.J. Broughton & J.B. Goodwin

WITNESSED BY

Well Test Engineer