FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 7-23-71

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit No. 122	
Location: 800' N, 900' E, S 21, T27N, R5W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7838	Tubing: Diameter: 1.990	Set At: Feet: 7774
Pay Zone: From: 7542	To: 7766	Total Depth: 7852	Shut In: 7 15-71
Stimulation Method: S W F		Flow Through Casing: xxx	Flow Through Tubing:

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2379		+ 12 = PSIA: 2391	Days Shut-In: 8	Shut-In Pressure, Tubing PSIG: 2539	+ 12 = PSIA: 2551
Flowing Pressure: P PSIG: 549		+ 12 = PSIA: 561		Working Pressure: Pw PSIG: 829	+ 12 = PSIA: 841
Temperature: T= 66 °F	Ft= .9943	n = .75		Fpv (From Tables): 1.055	Gravity: .655 Fg = .9571

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

$Q = 12.365 \times 561 \times .9943 \times .9571 \times 1.055 =$ 6958 MCF/D

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

Note: Well blew heavy spray of water and distillate throughout test.

$Aof = \left(\frac{6507601}{5800320} \right)^n = 6958(1.1219)^{.75} = 6958(1.0901)$

Aof = 7585 MCF/D

TESTED BY D. R. Roberts

WITNESSED BY

L. E. Mabe, Jr.