FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

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DATE 8/20/69

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit No. 112	
Location: 1840S-960W- S8 -T27N-R5W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7830	Tubing: Diameter: 1.900	Set At: Feet: 7755
Pay Zone: From: 7572	To: 7790	Total Depth: 7830	Shut In: 8-8-69
Stimulation Method: Sand Water Frac		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: 0.750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2637	+ 12 = PSIA: 2649	Days Shut-In: 12	Shut-In Pressure, Tubing PSIG: 2469	+ 12 = PSIA: 2481	
Flowing Pressure: P PSIG: 334	+ 12 = PSIA: 346		Working Pressure: Pw PSIG: 688	+ 12 = PSIA: 700	
Temperature: T= 86 °F Ft=.9759	n = .75		Fpv (From Tables): 1.031	Gravity: .670 Fg = .9463	

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

$Q = (12.365)(346)(.9759)(.9463)(1.031)$ = 4073 MCF/D

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

$Aof = \left(\frac{7017201}{6527201} \right)^n = (4073)(1.0750)^{.75} = (4073)(1.0556)$

Aof = 4299 MCF/D

Note: The well produced a light mist and distillate throughout the test.

TESTED BY Bobby J. Broughton

WITNESSED BY _____

H. L. Kendrick