FORM 23-75R (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 3-17-70

Operator: El Paso Natural Gas Company		Lease: San Juan 29-6 Unit No. 98	
Location: 1850S, 1850W, S26, T29N, R6W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7720	Tubing: Diameter: 1.900	Set At: Feet: 7653
Pay Zone: From: 7588	To: 7690	Total Depth: 7720	Shut In: 3-9-70
Stimulation Method: SWF		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: .750		Choke Constant: C: 12.365		Tubing perforated w/4 holes at 7653'.	
Shut-In Pressure, Casing, PSIG: 2632	+ 12 = PSIA: 2644	Days Shut-In: 8	Shut-In Pressure, Tubing PSIG: 2372	+ 12 = PSIA: 2384	
Flowing Pressure: P PSIG: 222	+ 12 = PSIA: 234		Working Pressure: P_w PSIG: 517	+ 12 = PSIA: 529	
Temperature: T= 83 °F	Ft= .9786	n = .750	Fpv (From Tables): 1.020	Gravity: .650	Fg = .9608

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

$Q = (12.365)(234)(.9786)(1.020)(.9608) = 2775$ MCF/D

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

Note: Heavey fog of water and distillate throughout test.

$Aof = \left(\frac{6990736}{6710895} \right)^n = (2775)(1.0416)^{.75} = (1.0311)(2775)$

Aof = 2861 MCF/D

TESTED BY T. D. Norton

WITNESSED BY

H. L. Kendrick