FORM 33-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE September 2, 1969

Operator: El Paso Natural Gas Company		Lease: San Juan 28-5 Unit No. 83	
Location: 1150'S, 1150'W, S 16 - T 28 N - R 5 W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 8004	Tubing: Diameter: 2.375	Set At: Feet: 7972
Pay Zone: From: 7848	To: 7987	Total Depth: 8004	Shut In: 8-20-69
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: 0.750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2539	+ 12 = PSIA: 2551	Days Shut-In: 13	Shut-In Pressure, Tubing PSIG: 806	+ 12 = PSIA: 818	
Flowing Pressure: P PSIG: 373	+ 12 = PSIA: 385		Working Pressure: Pw PSIG: 1380	+ 12 = PSIA: 1392	
Temperature: T= 85 °F	Ft=.9768	n = .75	Fpv (From Tables): 1.033	Gravity: .660	Fg= .9535

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = (12.365)(385)(.9768)(.9535)(1.033) = 4580 MCF/D

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

Aof = $\left(\frac{6507601}{4569937} \right)^n$ = (4580)(1.4240)$^{.75}$ = (4580)(1.3035)

Aof = 5970 MCF/D

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Note: Blew down to nothing in approximately one minute and then unloaded solid stream of water for approximately two minutes. Then cleared up to a very light spray and did so throughout test.

TESTED BY Ron Headrick

WITNESSED BY

H. L. Kendrick