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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE August 16, 1967

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit No. 104	
Location: 996'N, 1160'E, Sec. 12, T-27-N, R-5-W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.000 liner	Set At: Feet: 7767 to 8129	Tubing: Diameter: 2.375	Set At: Feet: 7857
Pay Zone: From: 7890	To: 8094	Total Depth: 8130	Shut In: 8-2-67
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2565	+ 12 = PSIA: 2577	Days Shut-In: 14	Shut-In Pressure, Tubing PSIG: 2589	+ 12 = PSIA: 2601	
Flowing Pressure: P PSIG: 329	+ 12 = PSIA: 341		Working Pressure: Pw PSIG: 1187	+ 12 = PSIA: 1199	
Temperature: T= 69 °F	Ft= .9915	n = .75	Fpv (From Tables): 1.031	Gravity: .640	Fg = .9682

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

Q = (12.365)(341)(.9915)(.9682)(1.031) = 4173 MCF/D

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

Aof = $\left(\frac{6765201}{5327600} \right)^n$ = $(4173)(1.2698)^{.75}$ = (4173)(1.1960)

NOTE: The well produced a medium to heavy fog for 15 minutes which diminished to a light fog of distillate and water for the remainder of the test period.

Aof = 4991 MCF/D

RECEIVED
AUG 21 1967
OIL CON. COM.
DIST. 3

TESTED BY Don Norton

CALCULATED
~~WITNESSED~~ BY H. E. McAnally

CHECKED BY T. B. Grant

H. L. Kendrick