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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE 8-24-66

Operator: El Paso Natural Gas Company		Lease: Ludwick No. 9 (MV) (OWWO)	
Location: 1090'S, 939'W, Sec. 29, T-30-N, R-10-W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 5.500	Set At: Feet: 5107	Tubing: Diameter: 2.375	Set At: Feet: 4892
Pay Zone: From: 4813	To: 4930	Total Depth: 5107	Shut In: 8-15-66
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365		Baker Model "D" Packer Set at 2567	
Shut-In Pressure, Casing, PSIG: 326 (PC)	+ 12 = PSIA	Days Shut-In: 9		Shut-In Pressure, Tubing PSIG: 326	+ 12 = PSIA: 338
Flowing Pressure: P PSIG: 54	+ 12 = PSIA: 66			Working Pressure: Pw PSIG: Calc.	+ 12 = PSIA: 125
Temperature: T= 64 °F	Ft=.9962	n = .75		Fpv (From Tables): 1.009	Gravity: .665 Fg = .9498

Initial SIPC = 326 psig
Final SIPC = 326 psig

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

$Q = (12.365)(66)(.9962)(.9498)(1.009) = 779$ MCF/D

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

$$\text{Aof} = \left(\frac{114,244}{98,619} \right)^n = (779)(1.1584)^{.75} = (779)(1.1167)$$

Aof = 870 MCF/D

NOTE: Well produced a very light spray of distillate and water throughout the test.

TESTED BY Hermon E. McAnally

CHECKED BY

WITNESSED BY C. R. Wagner

RECEIVED
AUG 30 1966
OIL CON. COM.
DIST. 3

H. L. Kendrick