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. 108	
Location: 1460'S, 1160'E, Sec. 15, T-27-N, R-5-W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7880	Tubing: Diameter: 2.375	Set At: Feet: 7574
Pay Zone: From: 7612	To: 7828	Total Depth: 7880	Shut In: 7-27-67
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: 2087	+ 12 = PSIA: 2099	Days Shut-In: 14	Shut-In Pressure, Tubing PSIG: 2492	+ 12 = PSIA: 2504	
Flowing Pressure: P PSIG: 414	+ 12 = PSIA: 426		Working Pressure: P_w PSIG: 1242	+ 12 = PSIA: 1254	
Temperature: T= 78 °F	Ft= .9831	n = .75	Fpv (From Tables): 1.037	Gravity: .640	Fg = .9682

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

$Q = (12.365)(426)(.9831)(.9682)(1.037) = 5199$ MCF/D

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

$Aof = \left(\frac{6270016}{4697500} \right)^n = (5199)(1.3347)^{.75} = (5199)(1.2419)$

NOTE: The well produced a medium spray of dist. and water throughout the test.

Aof = 6457 MCF/D

TESTED BY Don Norton

CHECKED ~~WITNESSED~~ BY T. B. Grant

CALCULATED BY H. E. McAnally

H. L. Kendrick