EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE October 18, 1976

Operator: El Paso Natural Gas Company		Lease: San Juan 27-4 Unit #124	
Location: SW 8, T27N, R4W		County: Rio Arriba	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 6170'	Tubing: Diameter: 2.375	Set At: Feet: 6105'
Pay Zone: From: 5268'	To: 6117'	Total Depth: 6170' PBTD 6154	Shut In: 9-21-76
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: Plate 2.500" Plate, 4" M.R.	Choke Constant: C: Plate 32.64		Tested through a 3/4" variable choke
Shut-In Pressure, Casing, PSIG: --	+ 12 = PSIA: --	Days Shut-In: 27	Shut-In Pressure, Tubing PSIG: 1103 / + 12 = PSIA: 1115
Flowing Pressure: P PSIG: 116 M.R., 319 W.H.	+ 12 = PSIA: 128 M.R., 331 W.H.		Working Pressure: P_w PSIG: calculated / + 12 = PSIA: 723
Temperature: T= 49 °F Ft=1.0108	n = .75		Fpv (From Tables): 1.015 / Gravity: 0.690 Fg=1.204

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

Q = Calculated from orifice meter readings = 4655 MCF/D

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

$$Aof = Q\left(\frac{1243225}{720496}\right)^n = (4655)(1.7255)^{.75} = (4655)(1.5055)$$

Aof = 7008 MCF/D

Note: The well produced 604 MCF during the test.

TESTED BY T. D. Norton & R. Hardy

WITNESSED BY _____

A. L. Dowell

Well Test Engineer