

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 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: PBT 6170' 6154	Shut In 9-21-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500" Plate, 4" M.R.		Plate Choke Constant: C 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 calculated	+ 12 = PSIA 723	
Temperature: T = 49 °F F _t = 1.0108	n = .75		F _{pv} (From Tables) 1.015	Gravity 0.690 F _g = 1.204	

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

$$Q = \text{Calculated from orifice meter readings} = \underline{4655} \text{ MCF/D}$$

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

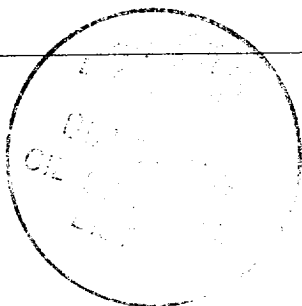
$$Aof = Q \left(\frac{1243225}{720496} \right)^n = (4655)(1.7255)^{.75} = (4655)(1.5055)$$

$$Aof = \underline{7008} \text{ MCF/D}$$

Note: The well produced 604 MCF during the test.

TESTED BY T. D. Norton & R. Hardy

WITNESSED BY _____



J. E. Smith
Well Test Engineer