

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 13, 1974

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #278	
Location 1960/S, 1820/W, Sec. 11, T25N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7283'	Tubing: Diameter 1.990	Set At: Feet 7157'
Pay Zone: From 7018'	To 7175'	Total Depth: PBT 7283' 7267'	Shut In 9-6-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2360	+ 12 = PSIA 2372	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1960	+ 12 = PSIA 1972	
Flowing Pressure: P PSIG 110	+ 12 = PSIA 122	Working Pressure: P _w PSIG 257	+ 12 = PSIA 269		
Temperature: T = 67 °F	n = Ft = 0.9933 .75	Fpv (From Tables) 1.013	Gravity .690	Fg = .9325	

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

$$Q = 12.365(122)(0.9933)(0.9325)(1.013) = \underline{1415} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{5626384}{5554023} \right)^n = 1415(1.0130)^{.75} = 1415(1.0098)$$

$$Aof = \underline{1429} \text{ MCF/D}$$

Note: The well produced a light fog of water.

TESTED BY F. C. Johnson

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer