

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 31, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #175 (PC)	
Location 1775/N, 1050/W, Sec. 28, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3069'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2902'	To 2948'	Total Depth: PBT 4152' 3058'	Shut In 4-5-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 709	+ 12 = PSIA 721	Days Shut-In 56	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 82	+ 12 = PSIA 94	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 117		
Temperature: T = 65 °F	F _t = .9952	n = .85	F _{pv} (From Tables) 1.0070	Gravity .645	F _g = .9645

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

$$Q = 12.365(94)(.9952)(.9645)(1.0070) = \underline{1123} \text{ MCF/D}$$

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

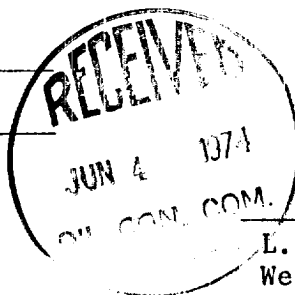
$$Aof = Q \left(\frac{519841}{506152} \right)^n = 1123(1.027)^{.85} = 1123(1.0229)$$

$$Aof = \underline{1149} \text{ MCF/D}$$

Note: The well produced a light fog of water and distillate during the test.

TESTED BY L. W. Fothergill

WITNESSED BY _____



Loren W Fothergill
L. W. Fothergill
Well Test Engineer