

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 22, 1974

Operator El Paso Natural Gas Company		Lease Morris A #10	
Location 1650/S, 1550/W, Sec. 22, T30N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2339'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2210	To 2228'	Total Depth: PBT 2339' 2329	Shut In 4-15-74
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 345	+ 12 = PSIA 357	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 78	+ 12 = PSIA 90		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 108	
Temperature: T = 65 °F	n = .85		F _{pv} (From Tables) 1.007	Gravity .640	F _g = .9682

CHOKE VOLUME = Q = C × P_f × F_f × F_g × F_{pv}

$$Q = 12.365(90)(.9952)(.9682)(1.007) = \underline{\hspace{2cm}} 1080 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{127449}{115785} \right)^n = 1080(1.1007)^{.85} = 1080(1.0850)$$

$$Aof = \underline{\hspace{2cm}} 1172 \text{ MCF/D}$$

Note: The well produced a dry gas.

TESTED BY Fothergill

WITNESSED BY _____

Loren W Fothergill
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 Well Test Engineer

