

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 24, 1978

Operator El Paso Natural Gas Company		Lease Fields #4-A	
Location SE 28-32-11		County San Juan	State New Mexico
Formation Fruitland		Pool Undes	
Casing: Diameter 4 1/2	Set At: Feet 5615'	Tubing: Diameter 1 1/4	Set At: Feet 2654'
Pay Zone: From 2488	To 2663	Total Depth: 5615'	Shut In 5-1-78
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1033	+ 12 = PSIA 1045	Days Shut-In 23	Shut-In Pressure, Tubing PSIG 1033	+ 12 = PSIA 1045	
Flowing Pressure: P PSIG 179	+ 12 = PSIA 191		Working Pressure: P _w PSIG 179	+ 12 = PSIA 191	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.019	Gravity .670	F _g = .9463

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

$$Q = 12.365 (191) (.9990) (.9463) (1.019) = \underline{\quad 2275 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1092025}{1055544} \right)^n = (1.0346)^{.85} (2275) = (1.0293) (2275)$$

$$Aof = \underline{\quad 2342 \quad} \text{ MCF/D}$$

Note: Well blew dry gas throughout test. Well vented 232 MCF to the atmosphere during the test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

