

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 26, 1979

Operator El Paso Natural Gas Company		Lease Roelofs A 2A (MV)	
Location NW 14-29-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5696	Tubing: Diameter 2 3/8	Set At: Feet 5647
Pay Zone: From 4688	To 5653	Total Depth: 5696	Shut In 4-19-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG ---	+ 12 = PSIA ---	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 577
Flowing Pressure: P PSIG 184	+ 12 = PSIA 196	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 391
Temperature: T = 69 °F	F _t = .9915	F _p (From Tables) 1.018	Gravity .650 F _g = 9608

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

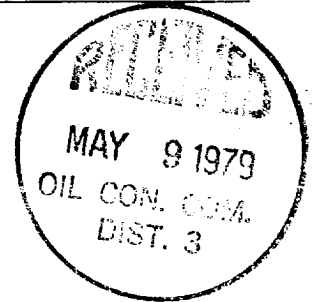
$$Q = 12.365 \times 196 \times .9915 \times .9608 \times 1.018 = \underline{2350} \text{ MCF/D}$$

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

$$Aof = \left(\frac{346921}{194040} \right)^n Q =$$

$$Aof = \underline{3634} \text{ MCF/D}$$

$$(1.7879)^{.75} (2350) = (1.5462) (2350)$$



NOTE: Well blew a very light fog of water throughout test and vented 225 MCF to the Atmosphere

TESTED BY N. Wagoner

WITNESSED BY _____

C.R. Wagoner
Well Test Engineer