

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

COMPANY DISTRIBUTION ONLY

DATE June 21, 1978

Operator Mesa Petroleum Corp.		Lease Johns #2-A (MV)	
Location SE 18-32-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000' 4.500'	Set At: Feet 3326' 5826'	Tubing: Diameter 2 3/8	Set At: Feet 5786'
Pay Zone: From 4783	To 5654	Total Depth: 5826'	Shut In 6-14-78
Stimulation Method Sandwater 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 905	+ 12 = PSIA 917	
Flowing Pressure: P PSIG 357	+ 12 = PSIA 369		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 745	
Temperature: T = 78 °F	F _t = .9840	n = .75	F _{pv} (From Tables) 1.033	Gravity .650	F _g = .9608

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

$$Q = 12.365(369)(.9840)(.9608)(1.033) = \underline{4456} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{840889}{285864} \right)^n = (2.9416)^{.75} = (4456) = (2.2461)(4456)$$

$$Aof = \underline{10,009} \text{ MCF/D}$$

Note: Well blew a very light fog of water throughout test.

TESTED BY D. GreenWITNESSED BY C. R. Wagner

C. R. Wagner
Well Test Engineer