

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 30, 1978

Operator El Paso Natural Gas Company		Lease Mudge #5A	
Location NW 3-31-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5549'	Tubing: Diameter 2 3/8	Set At: Feet 5414'
Pay Zone: From 4477	To 5508	Total Depth: PBTD 5549 5531	Shut In 1-22-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 536	+ 12 = PSIA 548	
Flowing Pressure: P PSIG 204	+ 12 = PSIA 216		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 427	
Temperature: T = 64 °F	n = .75		F _{pv} (From Tables) 1.021	Gravity .650	F _g = .9608

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

$$Q = 12.365 (216) (.9962) (.9608) (1.021) = \underline{2610} \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{300304}{117975} \right)^n = 2610 (2.5455)^{.75} = 2610 (2.0153)$$

$$A_{of} = \underline{5260} \text{ MCF/D}$$

Note: Well blew very light fog of
H₂O throughout test. Vented
263 MCF of gas during the test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Hagan
Well Test Engineer

