

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 12, 1976

Operator El Paso Natural Gas Company		Lease Beaver Lodge Com #2-R	
Location NE 36-31N-11W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5263'	Tubing: Diameter 2 3/8"	Set At: Feet 5163'
Pay Zone: From 4256	To 5158	Total Depth: PBD 5263 5247	Shut In 5-5-76
Stimulation Method Sandwater Fracture		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 791	+ 12 = PSIA 803	
Flowing Pressure: P PSIG 206	+ 12 = PSIA 218		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 414	
Temperature: T = 95 °F	F _t = .9680	n = .75	F _{pv} (From Tables) 1.019	Gravity .680	F _g = .9393

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

$$Q = (12.365)(218)(.9680)(.9393)(1.019) = \underline{2497} \text{ MCF/D}$$

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

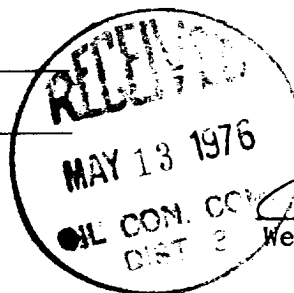
$$Aof = Q \left(\frac{644809}{473413} \right)^n = 2497(1.362)^{.75} = 2497(1.2608)$$

$$Aof = \underline{3148} \text{ MCF/D}$$

Note: Blew heavy fog of frac water throughout test.

TESTED BY Goodwin

WITNESSED BY _____



J. R. Wagner
Well Test Engineer