

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 14, 1976

Operator El Paso Natural Gas Company		Lease Brookhaven Com A #2-A	
Location SE 16-31N-10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5515'	Tubing: Diameter 2 3/8"	Set At: Feet 5422'
Pay Zone: From 4522	To 5448'	Total Depth: PBTD 5515' 5498	Shut In 6-5-76
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 9	Shut-In Pressure, Tubing 659	PSIG + 12 = PSIA 671
Flowing Pressure: P 195	PSIG 195	+ 12 = PSIA 207		Working Pressure: P <sub>w</sub> Calculated	PSIG + 12 = PSIA 408
Temperature: T = 66°F	F <sub>t</sub> = .9943	n = .75		F <sub>pv</sub> (From Tables) 1.022	Gravity .690 F <sub>g</sub> = .9325

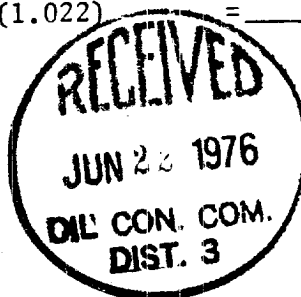
$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365(207)(.9943)(.9325)(1.022) = 2425 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{450241}{283777} \right)^n = 2425(1.5866)^{.75} = 2425(1.4137)$$

$$Aof = 3428 \text{ MCF/D}$$



Note: Light fog of water throughout test.  
Well vented 319 MCF of gas to atmosphere.

TESTED BY C. R. Wagner

WITNESSED BY \_\_\_\_\_

C. R. Wagner  
Well Test Engineer