

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

* CORRECTED COPY

DATE July 10, 1979

Operator El Paso Natural Gas Company		Lease Atlantic B 2A (PC)	
Location NW 4-30-10		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 3376	Tubing: Diameter 1 1/4	Set At: Feet 3122
Pay Zone: From 3022	To 3128	Total Depth: 3376	Shut In 6-25-79
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 936	+ 12 = PSIA 948	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 936	+ 12 = PSIA 948	
Flowing Pressure: P PSIG 111	+ 12 = PSIA 123		Working Pressure: P _w PSIG 116	+ 12 = PSIA 128	
Temperature: T = 62 °F	F _t = 0.9981	n = 0.85	F _{pv} (From Tables) 0.011	Gravity 0.645	F _g = 0.9645

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

$$Q = (12.365) (123) (0.9981) (0.9645) (1.011) \underline{\hspace{2cm}} 1480 \text{ MCF/D}$$

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

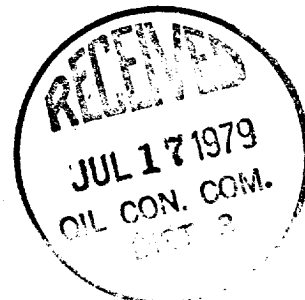
$$Aof = \left(\frac{898704}{882320} \right)^{0.85} = (1480) (1.0186) = (1480) (1.0158)$$

NOTE: The Well Produced 247 MCF Gas During the Test.

$$Aof = \underline{\underline{1503}} \text{ MCF/D}$$

TESTED BY Jim Thurstonson

WITNESSED BY _____



A. E. McAnally
Well Test Engineer