

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE February 15, 1979

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Atlantic B #9A (PC)</b>	
Location <b>SE 34-31-10</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>4.500</b>	Set At: Feet <b>5677'</b>	Tubing: Diameter <b>1 1/4</b>	Set At: Feet <b>3139'</b>
Pay Zone: From <b>2994'</b>	To <b>3161'</b>	Total Depth: <b>5677'</b>	Shut In <b>1-22-79</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing <b>XX</b>	Flow Through Tubing

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>			
Shut-In Pressure, Casing, PSIG <b>682</b>	+ 12 = PSIA <b>694</b>	Days Shut-In <b>24</b>	Shut-In Pressure, Tubing PSIG <b>682</b>	+ 12 = PSIA <b>694</b>	
Flowing Pressure: P PSIG <b>122</b>	+ 12 = PSIA <b>134</b>		Working Pressure: P <sub>w</sub> PSIG <b>124</b>	+ 12 = PSIA <b>136</b>	
Temperature: <b>T = 55 °F</b>	<b>F<sub>t</sub> = 1.005</b>	<b>n = .85</b>	F <sub>pv</sub> (From Tables) <b>1.013</b>	Gravity <b>670</b>	<b>F<sub>g</sub> = .9463</b>

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

$$Q = 12.365 \times 134 \times 1.005 \times .9463 \times 1.013 = \underline{1596} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{481636}{463140} \right)^n = (1.0400)^{.85} (1596) = (1.0339) (1596)$$

Note: Well blew dry gas and vented 176 MCF to the atmosphere during the test.

$$Aof = \underline{1650} \text{ MCF/D}$$

TESTED BY \_\_\_\_\_

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

*C.R. Wagner*  
Well Test Engineer

