

# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE July 17, 1979

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Atlantic B 6A (MV)</b>	
Location <b>NW 33-31-10</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>4.500</b>	Set At: Feet <b>5555'</b>	Tubing: Diameter <b>2 3/8</b>	Set At: Feet <b>5461</b>
Pay Zone: From <b>2860'</b>	To <b>5468</b>	Total Depth: <b>5555</b>	Shut In <b>7-1-79</b>
Stimulation Method <b>Sand Water Frac</b>		Flow Through Casing	Flow Through Tubing

Choke Size, Inches <b>0.750</b>	Choke Constant: C <b>12.365</b>			
Shut-In Pressure, Casing, PSIG <b>-----</b>	+ 12 = PSIA	Days Shut-In <b>14</b>	Shut-In Pressure, Tubing PSIG <b>688</b>	+ 12 = PSIA <b>700</b>
Flowing Pressure: P PSIG <b>170</b>	+ 12 = PSIA <b>182</b>	Working Pressure: P <sub>w</sub> PSIG <b>Calculate</b>		+ 12 = PSIA <b>360</b>
Temperature: T = <b>64</b> °F	F <sub>g</sub> = <b>0.9962</b>	n = <b>.85</b>	F <sub>pv</sub> (From Tables) <b>1.019</b>	Gravity <b>0.670</b> F <sub>g</sub> = <b>0.9463</b>

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

$$Q = (12.365)(182)(0.9962)(0.9463)(1.019) = \underline{2162} \text{ MCF/D}$$

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


$$Aof = \left( \frac{490000}{360400} \right)^n = (2162)(1.3596)^{.75} = (2162)(1.2591)$$

NOTE: The Well Produced 283 MCF Gas During The Test.

$$Aof = \underline{2722} \text{ MCF/D}$$

TESTED BY Jim Thurstonson

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

  
H. E. Mally  
 Well Test Engineer