

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE Oct. 20, 1979

Operator <b>El Paso Exploration Company</b>		Lease <b>Jicarilla 120 C #17</b>	
Location <b>NW 31-26-04</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliff</b>		Pool <b>So. Blanco</b>	
Casing: Diameter <b>2 7/8</b>	Set At: Feet <b>3310</b>	Tubing: Diameter <b>T/C</b>	Set At: Feet <b>---</b>
Pay Zone: From <b>3171</b>	To <b>3221</b>	Total Depth: <b>3310</b>	Shut In <b>10-13-79</b>
Stimulation Method <b>Sand Water 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>934</b>	+ 12 = PSIA <b>946</b>	Days Shut-In <b>7</b>	Shut-In Pressure, Tubing PSIG <b>No Tubing</b>	+ 12 = PSIA	
Flowing Pressure: P PSIG <b>162</b>	+ 12 = PSIA <b>174</b>		Working Pressure: P <sub>w</sub> PSIG <b>Calc. 222</b>	+ 12 = PSIA	
Temperature: T = 55 °F	F <sub>t</sub> = 1.005	n = <b>.85</b>	F <sub>pv</sub> (From Tables) <b>1.019</b>	Gravity <b>.670</b>	F <sub>g</sub> = .9463

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

$$Q = (12.365)(174)(1.005)(.9463)(1.019) = \underline{2085} \text{ MCF/D}$$

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

$$A_{of} = \left( \frac{894916}{845632} \right)^n = (1.0583)^{.85} (2085) = (1.0493)(2085)$$

NOTE: Well Blew A Very Light Fog of Water Throughout Test and Vented 220 MCF To The Atmosphere.

$$A_{of} = \underline{2188} \text{ MCF/D}$$

TESTED BY L. Nations

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

*C. R. Wagner*  
Well Test Engineer