

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE November 1, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Klein #20</u>	
Location <u>930/S, 1600/W, Sec. 30, T26N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Chacra</u>		Pool <u><del>Undes</del> Otero</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3307'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>3180</u>	To <u>3292</u>	Total Depth: <u>3307</u>	Shut In <u>10-24-73</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>681</u>	+ 12 = PSIA <u>693</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing, PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P, PSIG <u>22</u>	+ 12 = PSIA <u>34</u>		Working Pressure: P <sub>w</sub> , PSIG <u>Calculated</u>	+ 12 = PSIA <u>43</u>	
Temperature: T = <u>65 °F</u>	F <sub>t</sub> = <u>.9952</u>	n = <u>.75</u>	F <sub>p</sub> (From Tables) <u>1.004</u>	Gravity <u>.655</u>	F <sub>g</sub> = <u>.9571</u>

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

$$Q = (12.365) (34) (.9952) (.9571) (1.004) = \underline{402} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{480249}{478400} \right)^n = (402) (1.0039)^{.75} = (402) (1.0029)$$

$$Aof = \underline{403} \text{ MCF/D}$$

Note: Blew heavy fog of water for entire test.

TESTED BY Jesse B. Goodwin

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

*H. E. McAnally*  
Well Test Engineer

