

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

CORRECTED COPY

DATE October 17, 1973

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 27-4 Unit #64</b>	
Location <b>1700/N, 790/W, Sec. 19, T27N, R4W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliffs</b>		Pool <b>Tapacito</b>	
Casing: Diameter <b>2.875</b>	Set At: Feet <b>3647'</b>	Tubing: Diameter <b>No Tubing</b>	Set At: Feet
Pay Zone: From <b>3494</b>	To <b>3544'</b>	Total Depth: <b>3647</b>	Shut In <b>9-18-73</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing <b>X</b>	Flow Through Tubing

MR Choke Size, Inches <b>4"</b>	Orifice <b>2.500</b>	Orifice Choke Constant: C <b>32.64</b>	Well Tested thru <b>48/64</b> choke	
Shut-In Pressure, Casing, PSIG <b>1062</b>	+ 12 = PSIA	Days Shut-In <b>29</b>	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA
Flowing Pressure: P PSIG <b>WH 102 MR 37</b>	+ 12 = PSIA	Working Pressure: P <sub>w</sub> PSIG	+ 12 = PSIA	
Temperature: T = <b>70 °F</b>	n =	F <sub>pv</sub> (From Tables) <b>1.004</b>	Gravity <b>.680</b>	F <sub>g</sub> = <b>.9393</b>
F <sub>t</sub> = <b>.9905</b>	<b>.85</b>			

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

$$Q = \text{Calculated from meter readings} = \underline{\hspace{2cm}} 1406 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1153476}{1130675} \right)^n = 1406 (1.0202)^{.85} = 1406 (1.0171)$$

$$Aof = \underline{\hspace{2cm}} 1430 \text{ MCF/D}$$

Note: Well produced 2 bbl. of liquid with a trace of oil.

TESTED BY B.J.B. & D.N.

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

*H. E. D. M. C. Anally*  
Well Test Engineer

