

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 17, 1961

|                                                  |                            |                                       |                            |
|--------------------------------------------------|----------------------------|---------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>   |                            | Lease<br><b>San Juan 28-7 No. 122</b> |                            |
| Location<br><b>790'S, 1850'W, Sec. 18-27N-7W</b> |                            | County<br><b>Rio Arriba</b>           | State<br><b>New Mexico</b> |
| Field<br><b>Pictured Cliffs</b>                  |                            | Pool<br><b>South Blanco PC</b>        |                            |
| Working Pressure<br><b>2-7/8"</b>                | Set At Feet<br><b>2991</b> | Tubing Diameter<br><b>No Tubing</b>   | Set At Feet<br><b>----</b> |
| Flow Through Tubing<br><b>2905</b>               | To<br><b>2938</b>          | Total Depth<br><b>2992 C/O 2984</b>   | Shut-In<br><b>8-7-61</b>   |
| Flow Through Method<br><b>Sand/Water Frac.</b>   |                            | Flow Through Lining<br><b>X</b>       | Flow Through Tubing        |

|                                      |                                    |                                    |                                              |                                        |
|--------------------------------------|------------------------------------|------------------------------------|----------------------------------------------|----------------------------------------|
| Choke Size, Inches<br><b>.750</b>    | Choke Constant, C<br><b>12.365</b> | Days Shut-in<br><b>10</b>          | Shut-in Pressure, Tubing<br><b>No Tubing</b> | PSIG - 12 - PSIA<br><b>----</b>        |
| Working Pressure, PSIG<br><b>818</b> | PSIG - 12 - PSIA<br><b>830</b>     | Working Pressure, Pw<br><b>117</b> | Working Pressure, Pw<br><b>(Calc.)</b>       | PSIG - 12 - PSIA<br><b>162</b>         |
| Temperature<br><b>61</b>             | Flow Through<br><b>.9990</b>       | Flow Through<br><b>.85</b>         | Flow Through<br><b>1.010</b>                 | Gravity<br><b>.624</b> Fg <b>.9837</b> |

CHOKED VOLUME  $Q = C \times P_r \times F_r \times F_g \times F_v$

$$Q = (12.365)(129)(.9990)(.9837)(1.010)$$

**1583**

MCF/D

$$\text{OPEN FLOW } A_{of} = 1 \left( \frac{P_r^2}{P_c^2 - P_r^2} \right)^n$$

$$\text{Set } \left( \frac{688,900}{662,656} \right)^n (1.0396)^{.85} (1583) = (1.0331)(1583)$$

Aof

**1635**

MCF/D

Don Mortensen

Checked by:

W. D. Dawson

*H. L. Kendrick*  
H. L. Kendrick

