

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE February 4, 1957

|                                                   |                            |                                         |                            |
|---------------------------------------------------|----------------------------|-----------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>    |                            | Lease<br><b>Calloway Pool Unit # 2</b>  |                            |
| Location<br><b>1840'N, 800'E, Sec. 34-31-11</b>   |                            | County<br><b>San Juan</b>               | State<br><b>New Mexico</b> |
| Formation<br><b>Pictured Cliff (Zone of Dual)</b> |                            | Pool<br><b>Astec Pictured Cliff</b>     |                            |
| Casing Diameter<br><b>7</b>                       | Set At Feet<br><b>4375</b> | Tubing Diameter<br><b>2" and 1 1/4"</b> | Set At Feet<br><b>2275</b> |
| Perforation From<br><b>2238</b>                   | To<br><b>2284</b>          | Total Depth<br><b>4557 and</b>          |                            |
| Stimulation Method<br><b>Sand Water Frac</b>      |                            | Production Packer at <b>4320'</b>       |                            |
|                                                   |                            | Flow Through Casing<br><b>X</b>         | Flow Through Tubing        |

|                                               |                            |                                     |                                               |
|-----------------------------------------------|----------------------------|-------------------------------------|-----------------------------------------------|
| Choke Size, Inches<br><b>.750</b>             |                            | Choke Constant, C<br><b>14.1605</b> |                                               |
| Shut-in Pressure, Casing<br><b>718 (P.C.)</b> | PSIG 12 PSIA<br><b>730</b> | Days Shut-in<br><b>7</b>            | Shut-in Pressure, Tubing<br><b>950 (M.V.)</b> |
| Flowing Pressure, C<br><b>126</b>             | PSIG 12 PSIA<br><b>138</b> |                                     | Working Pressure, Pw<br><b>(Calculated)</b>   |
| Temperature<br><b>65</b>                      |                            | Exp (From Tables)<br><b>1.012</b>   | Gravity<br><b>.645</b>                        |

CHOKE VOLUME  $Q = C \times P_1 \times P_2 \times P_3 \times P_4$

$$C \ 14.1605 \times 138 \times .9952 \times .9645 \times 1.012$$

1898

MCF/D

$$Q = C \left( \frac{P_1^2 - P_2^2}{P_1^2 - P_2^2} \right)^n$$

$$\left( \frac{532,900}{513,579} \right)^{.85} (1.0376) (1898) = (1.0319) (1898)$$

Act 1959

MCF/D

Tom Grant, EPNG

A. R. Kendrick, New Mexico Oil Conservation Commission



*L. D. Galloway*  
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|                                    |                  |                                     |
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