

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE January 8, 1960

|                                             |                             |                                         |                                 |
|---------------------------------------------|-----------------------------|-----------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>      |                             | Lease<br><b>Rincon Unit No. 126 (D)</b> |                                 |
| Location<br><b>8008, 1830W; 27-27-6</b>     |                             | County<br><b>Rio Arriba</b>             | State<br><b>New Mexico</b>      |
| Formation<br><b>Dakota</b>                  |                             | Pool<br><b>Undesignated</b>             |                                 |
| Casing: Diameter<br><b>7</b>                | Set At: Feet<br><b>7718</b> | Tubing: Diameter<br><b>2</b>            | Set At: Feet<br><b>7606</b>     |
| Pay Zone: From<br><b>7416</b>               | To<br><b>7638</b>           | Total Depth:<br><b>e/o 7670</b>         | Shut In<br><b>12/31/59</b>      |
| Stimulation Method<br><b>Sand Oil Frac.</b> |                             | Flow Through Casing                     | Flow Through Tubing<br><b>X</b> |

|                                                    |                            |                                      |                                                  |
|----------------------------------------------------|----------------------------|--------------------------------------|--------------------------------------------------|
| Choke Size, Inches<br><b>.75</b>                   |                            | Choke Constant: C<br><b>12.365</b>   |                                                  |
| Shut-In Pressure, Casing, PSIG<br><b>(MV) 1016</b> | + 12 = PSIA<br><b>1028</b> | Days Shut-In<br><b>8</b>             | Shut-In Pressure, Tubing PSIG<br><b>(D) 2134</b> |
| Flowing Pressure: P PSIG<br><b>(D Tbg.) 296</b>    | + 12 = PSIA<br><b>308</b>  | Working Pressure: Pw<br><b>Gals.</b> | PSIG + 12 = PSIA<br><b>685</b>                   |
| Temperature: T = <b>66</b> °F                      | F = <b>.9943</b>           | Fpv (From Tables)<br><b>1.030</b>    | Gravity<br><b>.668</b>                           |
|                                                    |                            |                                      | Fg = <b>.9498</b>                                |

Initial SIPT (MV) = 1021 psig  
Final SIPT (MV) = 1032 psig

Baker Model "D" packer at 7200

CHOKE VOLUME = Q · C · P<sub>i</sub> · F<sub>t</sub> · F<sub>g</sub> · F<sub>pv</sub>

$$Q = 12.365 \times 308 \times .9943 \times .9498 \times 1.030 = 3705 \text{ MCF/D}$$

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

$$Aof = \left( \frac{4605316}{4136091} \right)^n \quad 1.1134^{.75} \times 3705 = 1.0840 \times 3705$$

$$Aof = 4016 \text{ MCF/D}$$

TESTED BY W. D. Dawson

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

*Lewis D. Galloway*  
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