

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE March 27, 1972

|  |                      |                                |                            |
|--|----------------------|--------------------------------|----------------------------|
| Operator<br>EL PASO NATURAL GAS COMPANY        |                      | Lease<br>Huerfano Unit No. 227 |                            |
| Location<br>1070 S - 1840 E Sec. 32-27N - 10 W |                      | County<br>San Juan             | State<br>New Mexico        |
| Formation<br>Dakota                            |                      | Pool<br>Basin                  |                            |
| Casing: Diameter<br>4.500                      | Set At: Feet<br>6558 | Tubing: Diameter<br>2.375      | Set At: Feet<br>6444       |
| Pay Zone: From<br>6272                         | To<br>6452           | Total Depth:<br>6558           | Shut In<br>3-20-72         |
| Stimulation Method<br>SWF                      |                      | Flow Through Casing            | Flow Through Tubing<br>XXX |

|  |                            |                   |  |  |
|--|----------------------------|-------------------|--|--|
| Choke Size, Inches<br>.750             | Choke Constant: C<br>41.10 |                   | Tested through a 3/4" variable choke.        |  |
| Shut-In Pressure, Casing, PSIG<br>1777 | + 12 = PSIA<br>1789        | Days Shut-In<br>7 | Shut-In Pressure, Tubing PSIG<br>1694        | + 12 = PSIA<br>1706                    |
| Flowing Pressure: P PSIG<br>195        | + 12 = PSIA<br>207         |                   | Working Pressure: P <sub>w</sub> PSIG<br>640 | + 12 = PSIA<br>652                     |
| Temperature:<br>T = 87 °F              | F <sub>t</sub> = .9750     | n =<br>.75        | F <sub>pv</sub> (From Tables)<br>1.020       | Gravity<br>.700 F <sub>g</sub> = 1.195 |

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

Q = Calculated from orifice readings = 1,705 MCF/D

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

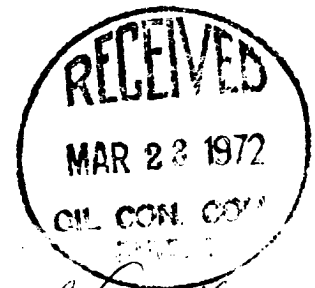
Note: The well produced 63.44 Bbls. 49 gravity oil and 12.48 Bbls. water during three hour test.

Aof =  $\left( \frac{3200521}{2775417} \right)^n = (1.705)(1.1532)^{.75} = 1.1128 \times 1705$

Aof = 1,897 MCF/D

TESTED BY Roger Hardy & Don Norton

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



*H. E. McAnally*  
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