

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 5-13-71

|                                             |                      |                               |                     |
|---------------------------------------------|----------------------|-------------------------------|---------------------|
| Operator<br>El Paso Natural Gas Company     |                      | Lease<br>Sunray B No. 6       |                     |
| Location<br>1725'N, 1500'E, S 1, T30N, R10W |                      | County<br>San Juan            | State<br>New Mexico |
| Formation<br>Pictured Cliffs                |                      | Pool<br>Blanco                |                     |
| Casing: Diameter<br>2.875                   | Set At: Feet<br>3481 | Tubing: Diameter<br>no tubing | Set At: Feet        |
| Pay Zone: From<br>3373                      | To<br>3394           | Total Depth:<br>3505          | Shut In<br>5-6-71   |
| Stimulation Method<br>S W G                 |                      | Flow Through Casing<br>XX     | Flow Through Tubing |

|                                       |                    |                                         |                                            |                       |  |
|---------------------------------------|--------------------|-----------------------------------------|--------------------------------------------|-----------------------|--|
| Choke Size, Inches<br>.750            |                    | Choke Constant: C<br>12.365             |                                            | tubingless completion |  |
| Shut-In Pressure, Casing, PSIG<br>884 | + 12 = PSIA<br>896 | Days Shut-In<br>7                       | Shut-In Pressure, Tubing PSIG<br>no tubing | + 12 = PSIA           |  |
| Flowing Pressure: P PSIG<br>189       | + 12 = PSIA<br>201 | Working Pressure: Pw PSIG<br>calculated | + 12 = PSIA<br>259                         |                       |  |
| Temperature:<br>T= 64 °F              | n =<br>Ft= .9962   | Fpv (From Tables)<br>1.017              | Gravity<br>.635                            | Fg = .9721            |  |

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

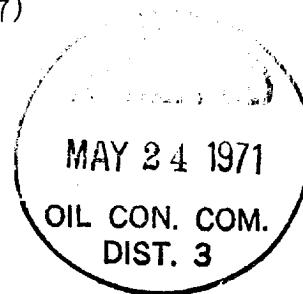
$$Q = 12.365 \times 201 \times .9962 \times .9721 \times 1.017 = 2448 \text{ MCF/D}$$

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

Note: Blew light fog of water for entire test.

$$Aof = \left( \frac{802816}{735735} \right)^n = 2448(1.0911)^{.85} = .9721(1.017)$$

$$Aof = 2636 \text{ MCF/D}$$



TESTED BY Jesse B. Goodwin

WITNESSED BY

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