

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

|                                                      |                      |                      |                            |                                    |                                                                       |                                      |                      |  |
|------------------------------------------------------|----------------------|----------------------|----------------------------|------------------------------------|-----------------------------------------------------------------------|--------------------------------------|----------------------|--|
| Pool<br><b>Santa Sabota</b>                          |                      |                      | Formation<br><b>Sabota</b> |                                    |                                                                       | County<br><b>San Juan</b>            |                      |  |
| Initial<br><b>X</b>                                  |                      | Annual               |                            | Special                            |                                                                       | Date of Test<br><b>June 14, 1965</b> |                      |  |
| Company<br><b>Pan American Petroleum Corporation</b> |                      |                      |                            | Lease<br><b>State Gas Unit "A"</b> |                                                                       |                                      | Well No.<br><b>1</b> |  |
| Unit<br><b>6</b>                                     | Sec.<br><b>2</b>     | Twp.<br><b>30-N</b>  | Range<br><b>13-W</b>       |                                    | Purchaser                                                             |                                      |                      |  |
| Casing<br><b>4-1/2"</b>                              | Wt.<br><b>10.50</b>  | I.D.<br><b>4.052</b> | Set at<br><b>6615'</b>     |                                    | Perf.<br><b>6620-6630'</b><br><b>6634-6640'</b>                       | To<br><b>6630-6672'</b>              |                      |  |
| Tubing<br><b>2"</b>                                  | Wt.<br><b>3.40</b>   | I.D.<br><b>1.730</b> | Set at<br><b>6667'</b>     |                                    | Perf.<br><b>6630'</b>                                                 | To<br><b>6651'</b>                   |                      |  |
| Gas Pay:                                             | From<br><b>6646'</b> | To<br><b>6666'</b>   | L<br><b>6671'</b>          | G<br><b>0.700</b>                  | GL<br><b>6670'</b>                                                    | Bar. Press.<br><b>12</b>             |                      |  |
| Producing Through:                                   |                      | Casing               | Tubing<br><b>X</b>         |                                    | Type Well - Single - Braden head - G.G. or G.O. Dual<br><b>Single</b> |                                      |                      |  |
| Date of Completion<br><b>June 7, 1965</b>            |                      | Packer               |                            |                                    | Reservoir Temp.                                                       |                                      |                      |  |

OBSERVED DATA

| Tested Through: Prover <input type="checkbox"/> Choke <input checked="" type="checkbox"/> Meter <input type="checkbox"/> |                      |              |              |                      |           |              |             | Type of Taps |             |                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|--------------|----------------------|-----------|--------------|-------------|--------------|-------------|----------------------|
| FLOW DATA                                                                                                                |                      |              |              |                      |           | TUBING DATA  |             | CASING DATA  |             | DURATION OF FLOW HR. |
| No.                                                                                                                      | Pressure (1 in) Size | (Choke) Size | Press. psig. | Diff. h <sub>w</sub> | Temp. °F. | Press. psig. | Temp. °F.   | Press. psig. | Temp. °F.   |                      |
| 1.                                                                                                                       | <b>7 days</b>        |              |              |                      |           | <b>1726</b>  |             | <b>1712</b>  |             |                      |
| 1.                                                                                                                       | <b>2 inch</b>        | <b>2.730</b> | <b>100</b>   |                      |           | <b>100</b>   | <b>60°F</b> | <b>100</b>   | <b>60°F</b> | <b>3 hours</b>       |
| 2.                                                                                                                       |                      |              |              |                      |           |              |             |              |             |                      |
| 3.                                                                                                                       |                      |              |              |                      |           |              |             |              |             |                      |
| 4.                                                                                                                       |                      |              |              |                      |           |              |             |              |             |                      |
| 5.                                                                                                                       |                      |              |              |                      |           |              |             |              |             |                      |

FLOW CALCULATIONS

| No. | Coefficient (24 Hour) | $\sqrt{\frac{h_w}{p_f}}$ | Pressure psia | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Compress. Factor F <sub>pv</sub> | Rate of Flow Q-MCF P D @ 15.025 psia |
|-----|-----------------------|--------------------------|---------------|----------------------------------|-------------------------------|----------------------------------|--------------------------------------|
| 1.  | <b>12.3650</b>        |                          | <b>121</b>    |                                  | <b>0.9258</b>                 | <b>1.1012</b>                    | <b>1925</b>                          |
| 2.  |                       |                          |               |                                  |                               |                                  |                                      |
| 3.  |                       |                          |               |                                  |                               |                                  |                                      |
| 4.  |                       |                          |               |                                  |                               |                                  |                                      |
| 5.  |                       |                          |               |                                  |                               |                                  |                                      |

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.      Specific Gravity Separator Gas \_\_\_\_\_  
 Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.      Specific Gravity Flowing Fluid \_\_\_\_\_  
 F<sub>c</sub> \_\_\_\_\_ (1 - e<sup>-S</sup>) \_\_\_\_\_      P<sub>c</sub> **1730**      P<sub>c</sub><sup>2</sup> **3,020,644**

| No. | $\frac{P_w}{P_t}$ psia | P <sub>t</sub> <sup>2</sup> | F <sub>c</sub> Q | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1 - e <sup>-S</sup> ) | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | Cal P <sub>w</sub> | $\frac{P_w}{P_c}$ |
|-----|------------------------|-----------------------------|------------------|---------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------------------------------------|--------------------|-------------------|
| 1.  |                        |                             |                  |                                 |                                                        | <b>480,000</b>              | <b>2,539,644</b>                                          |                    |                   |
| 2.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                    |                   |
| 3.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                    |                   |
| 4.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                    |                   |
| 5.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                    |                   |

ABSOLUTE POTENTIAL: **1741** MCFPD: **0.73**

COMPANY **Pan American Petroleum Corporation** WITNESSED \_\_\_\_\_

ADDRESS **Box 432, Farmington, New Mexico** COMPANY \_\_\_\_\_

**Fred L. Nabors, District Engineer**

AGENT AND TITLE *Fred L. Nabors*

