

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

Form C-122

Revised 12-1-55

|                                                      |                     |                                      |                       |                                                                       |                                               |
|------------------------------------------------------|---------------------|--------------------------------------|-----------------------|-----------------------------------------------------------------------|-----------------------------------------------|
| Pool<br><b>Basin</b>                                 |                     | Formation<br><b>Dakota</b>           |                       | County<br><b>San Juan</b>                                             |                                               |
| Initial<br><b>X</b>                                  |                     | Annual                               |                       | Date of Test<br><b>11-18-65</b>                                       |                                               |
| Company<br><b>PAN AMERICAN PETROLEUM CORPORATION</b> |                     | Lease<br><b>Gallegos Canyon Unit</b> |                       | Well No.<br><b>199</b>                                                |                                               |
| Unit<br><b>0</b>                                     | Sec.<br><b>34</b>   | Twp.<br><b>29N</b>                   | Range<br><b>12W</b>   | Purchaser                                                             |                                               |
| Casing<br><b>4-1/2</b>                               | Wt.<br><b>10.5</b>  | I.D.<br><b>4.052</b>                 | Set at<br><b>6009</b> | Perf.<br><b>5846-56</b>                                               | To<br><b>5908-42</b><br><b>5975-6000</b>      |
| Tubing<br><b>2-3/8</b>                               | Wt.<br><b>4.7</b>   | I.D.<br><b>1.995</b>                 | Set at<br><b>5849</b> | Perf.<br><b>5812</b>                                                  | To<br><b>5818</b>                             |
| Gas Pay:                                             | From<br><b>5846</b> | To<br><b>6000</b>                    | L<br><b>5923</b>      | G<br><b>.700</b>                                                      | GL<br><b>4146</b><br>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>11-10-65</b>                |                     | Packer<br><b>None</b>                |                       | 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<br>OF FLOW<br>HR. |
| No.                                                                                                                      | (Line)<br>Size | (Choke)<br>Size | Press.<br>psig. | Diff.<br>h <sub>w</sub> | Temp.<br>°F. | Press.<br>psig. | Temp.<br>°F.    | Press.<br>psig. | Temp.<br>°F.    |                            |
| SI                                                                                                                       | <b>8 Days</b>  |                 |                 |                         |              | <b>2034</b>     |                 | <b>2037</b>     |                 |                            |
| 1.                                                                                                                       | <b>2 Inch</b>  | <b>.750</b>     | <b>679</b>      |                         |              | <b>679</b>      | <b>60° est.</b> | <b>1459</b>     | <b>60° est.</b> | <b>3 Hr.</b>               |
| 2.                                                                                                                       |                |                 |                 |                         |              |                 |                 |                 |                 |                            |
| 3.                                                                                                                       |                |                 |                 |                         |              |                 |                 |                 |                 |                            |
| 4.                                                                                                                       |                |                 |                 |                         |              |                 |                 |                 |                 |                            |
| 5.                                                                                                                       |                |                 |                 |                         |              |                 |                 |                 |                 |                            |

FLOW CALCULATIONS

| No. | Coefficient<br>(24 Hour) | $\sqrt{h_w p_f}$ | Pressure<br>psia | Flow Temp.<br>Factor<br>F <sub>t</sub> | Gravity<br>Factor<br>F <sub>g</sub> | Compress.<br>Factor<br>F <sub>pv</sub> | Rate of Flow Q-MCF P D<br>@ 15.025 psia |
|-----|--------------------------|------------------|------------------|----------------------------------------|-------------------------------------|----------------------------------------|-----------------------------------------|
| 1.  | <b>12.3650</b>           |                  | <b>691</b>       | <b>1.000</b>                           | <b>.9258</b>                        | <b>1.091</b>                           | <b>8630</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> **2049**      P<sub>c</sub><sup>2</sup> **4,198,401**

| 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<br>P <sub>w</sub> | $\frac{P_w}{P_c}$ |
|-----|------------------------|-----------------------------|------------------|---------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------------------------------------|-----------------------|-------------------|
| 1.  |                        |                             |                  |                                 |                                                        | <b>2,163,841</b>            | <b>2,034,560</b>                                          |                       |                   |
| 2.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |
| 3.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |
| 4.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |
| 5.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |

ABSOLUTE POTENTIAL: **14,857** MCFPD; n **.75**

COMPANY **PAN AMERICAN PETROLEUM CORPORATION** WITNESSED \_\_\_\_\_

ADDRESS **Box 480, Farmington, New Mexico** COMPANY \_\_\_\_\_

AGENT AND TITLE **G. W. Eaton, Jr., Area Engineer**

Original Signed By: **G. W. EATON, JR.**

