

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              | Special                                       | Date of Test<br><b>5-16-66</b> |                                                                       |                        |
| Company<br><b>PAN AMERICAN PETROLEUM CORPORATION</b> |                     | Lease<br><b>Gallegos Canyon Unit - Dakota</b> |                                | Well No.<br><b>247</b>                                                |                        |
| Unit<br><b>A</b>                                     | Sec.<br><b>5</b>    | Twp.<br><b>27N</b>                            | Range<br><b>12W</b>            | Purchaser                                                             |                        |
| Casing<br><b>4.500</b>                               | Wt.<br><b>10.5</b>  | I.D.<br><b>4.052</b>                          | Set at<br><b>6018</b>          | Perf.<br><b>5876-91</b>                                               | To<br><b>5940-5960</b> |
| Tubing<br><b>2.375</b>                               | Wt.<br><b>4.7</b>   | I.D.<br><b>1.995</b>                          | Set at<br><b>5901</b>          | Perf.<br><b>5864</b>                                                  | To<br><b>5870</b>      |
| Gas Pay:                                             | From<br><b>5876</b> | To<br><b>5960</b>                             | L<br><b>5919</b>               | G<br><b>.700</b>                                                      | GL<br><b>4143</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>5-6-66</b>                  |                     | Packer<br><b>None</b>                         |                                | Reservoir Temp.                                                       |                        |

OBSERVED DATA

| Tested Through:                 |                            |                                           |                 |                                |              |                 |                 | Type of Taps    |                 |                            |
|---------------------------------|----------------------------|-------------------------------------------|-----------------|--------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|----------------------------|
| Prover <input type="checkbox"/> |                            | Choke <input checked="" type="checkbox"/> |                 | Meter <input type="checkbox"/> |              |                 |                 |                 |                 |                            |
| FLOW DATA                       |                            |                                           |                 |                                |              | TUBING DATA     |                 | CASING DATA     |                 | DURATION<br>OF FLOW<br>HR. |
| No.                             | (Prover)<br>(Line)<br>Size | (Choke)<br>(Orifice)<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.    |                            |
| 1.                              | <b>10 Days</b>             |                                           |                 |                                |              | <b>2057</b>     |                 | <b>2062</b>     |                 |                            |
| 1.                              | <b>2 Inch</b>              | <b>.750</b>                               | <b>383</b>      |                                |              | <b>383</b>      | <b>60° est.</b> | <b>947</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>395</b>       | <b>1.0000</b>                          | <b>.9258</b>                        | <b>1.048</b>                           | <b>4739</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> **2074**      P<sub>c</sub><sup>2</sup> **4,301,476**

| 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>919,681</b>              | <b>3,381,795</b>                                          |                       |                   |
| 2.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |
| 3.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |
| 4.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |
| 5.  |                        |                             |                  |                                 |                                                        |                             |                                                           |                       |                   |

ABSOLUTE POTENTIAL: **5676** MCFPD; n **.75**

COMPANY **PAN AMERICAN PETROLEUM CORPORATION**

ADDRESS **Box 480, Farmington, New Mexico**

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

