

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>5-25-66</b>                                        |                                      |
| Company<br><b>PAN AMERICAN PETROLEUM CORPORATION</b> |                     |                            | Lease<br><b>Gallegos Canyon Unit-Dakota</b> |                                                                       | Well No.<br><b>246</b>               |
| Unit<br><b>C</b>                                     | Sec.<br><b>35</b>   | Twp.<br><b>28N</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>6423</b>                       | Perf.<br><b>6226-6231<br/>6244-6249</b>                               | To<br><b>6292-6312<br/>6318-6324</b> |
| Tubing<br><b>2.375</b>                               | Wt.<br><b>4.7</b>   | I.D.<br><b>1.995</b>       | Set at<br><b>6236</b>                       | Perf.<br><b>6199</b>                                                  | To<br><b>6205</b>                    |
| Gas Pay:                                             | From<br><b>6226</b> | To<br><b>6324</b>          | L<br><b>6275</b>                            | G<br><b>.700</b>                                                      | GL<br><b>4393</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>5-12-66</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 OF FLOW HR. |
| No.                                                                                                                      | (Line) Size    | (Choke) Size | Press. psig. | Diff. h <sub>w</sub> | Temp. °F. | Press. psig. | Temp. °F.       | Press. psig. | Temp. °F.       |                      |
| SI                                                                                                                       | <b>13 days</b> |              |              |                      |           | <b>1966</b>  |                 | <b>1962</b>  |                 |                      |
| 1.                                                                                                                       | <b>2 inch</b>  | <b>.750</b>  | <b>312</b>   |                      |           | <b>312</b>   | <b>60° est.</b> | <b>708</b>   | <b>60° est.</b> | <b>3 Hr.</b>         |
| 2.                                                                                                                       |                |              |              |                      |           |              |                 |              |                 |                      |
| 3.                                                                                                                       |                |              |              |                      |           |              |                 |              |                 |                      |
| 4.                                                                                                                       |                |              |              |                      |           |              |                 |              |                 |                      |
| 5.                                                                                                                       |                |              |              |                      |           |              |                 |              |                 |                      |

FLOW CALCULATIONS

| No. | Coefficient (24 Hour) | $\sqrt{h_w p_f}$ | 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>324</b>    | <b>1.0000</b>                    | <b>.9258</b>                  | <b>1.039</b>                     | <b>3854</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> **1978**      P<sub>c</sub><sup>2</sup> **3,912,484**

| 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>518,400</b>              | <b>3,394,084</b>                                          |                    |                   |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |

ABSOLUTE POTENTIAL: **4288** 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**

