

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>6-16-66</b> |                                                                       |                                         |
| Company<br><b>PAN AMERICAN PETROLEUM CORPORATION</b> |                     | Lease<br><b>Gallegos Canyon Unit</b> |                                | Well No.<br><b>239</b>                                                |                                         |
| Unit<br><b>H</b>                                     | Sec.<br><b>24</b>   | Twp.<br><b>28N</b>                   | Range<br><b>13W</b>            | Purchaser<br><b>El Paso Natural Gas Co. (when connected)</b>          |                                         |
| Casing<br><b>4.500</b>                               | Wt.<br><b>10.5</b>  | I.D.<br><b>4.052</b>                 | Set at<br><b>6259</b>          | Perf.<br><b>6096-6111</b>                                             | To<br><b>6149-6169</b>                  |
| Tubing<br><b>2.375</b>                               | Wt.<br><b>4.7</b>   | I.D.<br><b>1.995</b>                 | Set at<br><b>6124</b>          | Perf.<br><b>6087</b>                                                  | To<br><b>6093</b>                       |
| Gas Pay:                                             | From<br><b>6096</b> | To<br><b>6169</b>                    | L<br><b>6133</b>               | G<br><b>.700</b>                                                      | GL<br><b>4293</b> Bar. Press. <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>6-8-66</b>                  |                     | Packer<br><b>6022</b>                |                                | Reservoir Temp.                                                       |                                         |

OBSERVED DATA

| Tested Through: |               |              |              |                      |           | Prover <input type="checkbox"/> |                 | Choke <input checked="" type="checkbox"/> |                 | Meter <input type="checkbox"/> |  | Type of Taps<br><i>Per 6022</i> |  |
|-----------------|---------------|--------------|--------------|----------------------|-----------|---------------------------------|-----------------|-------------------------------------------|-----------------|--------------------------------|--|---------------------------------|--|
| 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>8 Days</b> |              |              |                      |           | <b>1759</b>                     |                 | <b>752</b>                                |                 |                                |  |                                 |  |
| 1.              | <b>2 Inch</b> |              | <b>188</b>   |                      |           | <b>188</b>                      | <b>60° est.</b> | <b>772</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 PD @ 15.025 psia |
|-----|-----------------------|------------------|---------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------------|
| 1.  | <b>12.3650</b>        |                  | <b>200</b>    | <b>1.0000</b>                    | <b>.9258</b>                  | <b>1.023</b>                     | <b>2343</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> **9.402** (1-e<sup>-S</sup>) **0.268**      P<sub>c</sub> **1771** p<sub>c</sub><sup>2</sup> **3,136,441**

| 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>200</b>             | <b>40.000</b>               | <b>22.029</b>    | <b>485.277</b>                  | <b>130.054</b>                                       | <b>170.054</b>              | <b>2,966,387</b>                                          |                    |                   |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                    |                   |

ABSOLUTE POTENTIAL: **2443** MCFPD; n **.75**

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

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

AGENT AND TITLE **Original Signed By**  
**G. W. EATON, JR.**

**G. W. Eaton, Jr., Area Engineer**

