

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

|                                                                                                                           |                    |                                      |                       |                                                  |                    |                                                          |           |                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------|-----------------------|--------------------------------------------------|--------------------|----------------------------------------------------------|-----------|-----------------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                    |                                      |                       |                                                  |                    | Test Date<br><b>10-9-69</b>                              |           |                                                     |  |
| Company<br><b>PAN AMERICAN PETROLEUM CORP.</b>                                                                            |                    |                                      |                       | Connection<br><b>None</b>                        |                    |                                                          |           |                                                     |  |
| Pool<br><b>South Blanco</b>                                                                                               |                    |                                      |                       | Formation<br><b>Pictured Cliffs</b>              |                    |                                                          |           | Unit                                                |  |
| Completion Date<br><b>10-1-69</b>                                                                                         |                    | Total Depth<br><b>3030</b>           |                       | Plug Back TD<br><b>2978</b>                      |                    | Elevation <b>KDB</b><br><b>GL 6618/6632</b>              |           | Farm or Lease Name<br><b>Jicarilla Contract 146</b> |  |
| Csg. Size<br><b>4.500</b>                                                                                                 | Wt.<br><b>10.5</b> | d<br><b>4.052</b>                    | Set At<br><b>3013</b> | Perforations:<br>From <b>2904</b> To <b>2924</b> |                    | Well No.<br><b>20</b>                                    |           |                                                     |  |
| Tbg. Size<br><b>1.660</b>                                                                                                 | Wt.<br><b>2.40</b> | d<br><b>1.380</b>                    | Set At<br><b>2902</b> | Perforations:<br>From <b>Open End</b> To         |                    | Unit    Sec.    Twp.    Rge.<br><b>A    4    25    5</b> |           |                                                     |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single</b>                                                  |                    |                                      |                       |                                                  |                    | Packer Set At<br><b>None</b>                             |           | County<br><b>Rio Arriba</b>                         |  |
| Producing Thru<br><b>Tubing</b>                                                                                           |                    | Reservoir Temp. °F<br><b>90 @ TD</b> |                       | Mean Annual Temp. °F<br><b>Est. 60°</b>          |                    | Baro. Press. - P <sub>a</sub><br><b>12 PSIA Est.</b>     |           | State<br><b>New Mexico</b>                          |  |
| L<br><b>2914</b>                                                                                                          | H<br><b>2914</b>   | Gg<br><b>.650</b>                    | % CO <sub>2</sub>     | % N <sub>2</sub>                                 | % H <sub>2</sub> S | Prover                                                   | Meter Run | Taps                                                |  |

| FLOW DATA |               |             |                 |                      |          | TUBING DATA     |                 | CASING DATA     |          | Duration of Flow |
|-----------|---------------|-------------|-----------------|----------------------|----------|-----------------|-----------------|-----------------|----------|------------------|
| NO.       | Line Size     | X           | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F        | Press. p.s.i.g. | Temp. °F |                  |
| SI        | <b>7 Days</b> |             |                 |                      |          | <b>572</b>      |                 | <b>572</b>      |          |                  |
| 1.        | <b>2 Inch</b> | <b>.750</b> | <b>127</b>      |                      |          | <b>127</b>      | <b>60° Est.</b> | <b>512</b>      |          | <b>3 Hrs.</b>    |
| 2.        |               |             |                 |                      |          |                 |                 |                 |          |                  |
| 3.        |               |             |                 |                      |          |                 |                 |                 |          |                  |
| 4.        |               |             |                 |                      |          |                 |                 |                 |          |                  |
| 5.        |               |             |                 |                      |          |                 |                 |                 |          |                  |

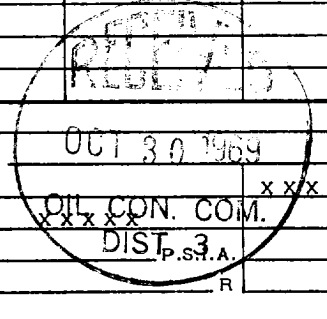
  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                             |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | <b>12.3650</b>        |                  | <b>139</b>              | <b>1.000</b>          | <b>.9608</b>      | <b>1.012</b>                | <b>1671</b>          |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

| NO. | P <sub>t</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio          | Mcf/bbl. |
|-----|----------------|----------|----------------|---|---------------------------------------|----------|
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons | Deg.     |
| 2.  |                |          |                |   | Specific Gravity Separator Gas        | XXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid        | XXXXX    |
| 4.  |                |          |                |   | Critical Pressure                     | P.S.I.A. |
| 5.  |                |          |                |   | Critical Temperature                  | R        |



| NO. | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>t</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| 1   |                             | <b>524</b>     | <b>274,576</b>              | <b>66,480</b>                                             |
| 2   |                             |                |                             |                                                           |
| 3   |                             |                |                             |                                                           |
| 4   |                             |                |                             |                                                           |
| 5   |                             |                |                             |                                                           |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.1302$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.0143$$

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6708$$

|                    |             |                |                  |                     |
|--------------------|-------------|----------------|------------------|---------------------|
| Absolute Open Flow | <b>6708</b> | Mcf/d @ 15.025 | Angle of Slope ° | Slope, n <b>.85</b> |
|--------------------|-------------|----------------|------------------|---------------------|

Remarks: \_\_\_\_\_

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

|                         |                                     |                |                                    |
|-------------------------|-------------------------------------|----------------|------------------------------------|
| Approved By Commission: | Conducted By:<br><b>B. D. Dukas</b> | Calculated By: | Checked By:<br><b>J. J. Layton</b> |
|-------------------------|-------------------------------------|----------------|------------------------------------|