

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

Form C-122  
Revised 9-1-65

|                                                                                                                        |                 |                                    |                    |                                               |                          |                                                          |
|------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|--------------------|-----------------------------------------------|--------------------------|----------------------------------------------------------|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                 |                                    |                    |                                               | Test Date <b>6-12-69</b> |                                                          |
| Company <b>PAN AMERICAN PETROLEUM CORPORATION</b>                                                                      |                 |                                    |                    | Connection <b>None</b>                        |                          |                                                          |
| Pool <b>Ballard</b>                                                                                                    |                 |                                    |                    | Formation <b>Pictured Cliffs</b>              |                          | Unit                                                     |
| Completion Date <b>6-5-69</b>                                                                                          |                 | Total Depth <b>2900</b>            |                    | Plug Back TD <b>2829</b>                      |                          | Elevation <b>7288</b>                                    |
| Farm or Lease Name <b>Jicarilla Tribal 360</b>                                                                         |                 |                                    |                    |                                               |                          | Well No.                                                 |
| Csg. Size <b>4-1/2"</b>                                                                                                | Wt. <b>10.5</b> | d                                  | Set At <b>2863</b> | Perforations: From <b>2729</b> To <b>2753</b> |                          | Unit <b>2</b>                                            |
| Tbg. Size <b>1-1/2"</b>                                                                                                | Wt. <b>2.75</b> | d <b>1.610</b>                     | Set At <b>2738</b> | Perforations: From <b>2738</b> To             |                          | Unit <b>I</b> Sec. <b>1</b> Twp. <b>22</b> Rge. <b>3</b> |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>Single</b>                                                  |                 |                                    |                    | Packer Set At                                 |                          | County <b>Sandoval</b>                                   |
| Producing Thru <b>Tubing</b>                                                                                           |                 | Reservoir Temp. °F <b>90° @ TD</b> |                    | Mean Annual Temp. °F <b>60° F.</b>            |                          | Baro. Press. - P <sub>a</sub> <b>12 PSI est.</b>         |
| State <b>New Mexico</b>                                                                                                |                 |                                    |                    |                                               |                          |                                                          |
| L                                                                                                                      | H               | Gg <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. |                  |
| SI        | <b>7 Days</b> |             |                 |                      |             | <b>740</b>      |                 | <b>740</b>      |                  |
| 1.        | <b>2 Inch</b> | <b>.750</b> | <b>180</b>      |                      |             | <b>180</b>      | <b>60° est.</b> | <b>617</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>192</b>              | <b>1.000</b>          | <b>.9608</b>      | <b>1.022</b>                | <b>2331</b>          |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

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

  

|                           |                                            |                                                     |                                                                      |
|---------------------------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|
| P <sub>c</sub> <b>752</b> | P <sub>c</sub> <sup>2</sup> <b>565,504</b> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \mathbf{3.3292}$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{2.7795}$ |
| NO                        | P <sub>t</sub> <sup>2</sup>                | P <sub>w</sub>                                      | P <sub>w</sub> <sup>2</sup>                                          |
| 1                         |                                            | <b>629</b>                                          | <b>395,641</b>                                                       |
| 2                         |                                            |                                                     |                                                                      |
| 3                         |                                            |                                                     |                                                                      |
| 4                         |                                            |                                                     |                                                                      |
| 5                         |                                            |                                                     |                                                                      |

  

|                                               |                                     |                         |                                   |
|-----------------------------------------------|-------------------------------------|-------------------------|-----------------------------------|
| Absolute Open Flow <b>6479</b> Mcfd @ 15.025  |                                     | Angle of Slope $\theta$ | Slope, n <b>.85</b>               |
| Remarks:                                      |                                     |                         |                                   |
| Original Signed By<br><b>E. R. HIRST, JR.</b> |                                     |                         |                                   |
| Approved By Commission:                       | Conducted By:<br><b>B. D. Dukes</b> | Calculated By:          | Checked By:<br><b>E. R. Hirst</b> |