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State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-122  
Revised 4-1-91

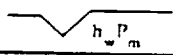
OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |  |                                                                          |  |                                                    |  |                                              |  |
|---------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|----------------------------------------------------|--|----------------------------------------------|--|
| Operator<br><b>Oxy U.S.A</b>                                                                                              |  |                                                                          |  | Lease or Unit Name<br><b>Chopsticks State Com.</b> |  |                                              |  |
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                                                                          |  | Test Date<br><b>8-14-99</b>                        |  | Well No.<br><b>1</b>                         |  |
| Completion Date<br><b>7-22-99</b>                                                                                         |  | Total Depth<br><b>9750</b>                                               |  | Plug Back TD<br><b>9677</b>                        |  | Elevation                                    |  |
| Csg. Size<br><b>4 1/2</b>                                                                                                 |  | Wt.<br><b>10.5#</b>                                                      |  | d<br><b>4.052</b>                                  |  | Set At<br><b>9750</b>                        |  |
| Perforations:<br>From: <b>9230</b> To: <b>9244</b>                                                                        |  | County<br><b>Eddy</b>                                                    |  | Pool<br><b>Logan Draw Morrow</b>                   |  |                                              |  |
| Tbg. Size<br><b>2 3/8</b>                                                                                                 |  | Wt.<br><b>4.7</b>                                                        |  | d<br><b>1.995</b>                                  |  | Set At<br><b>9189</b>                        |  |
| Perforations:<br>From: To:                                                                                                |  | Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single</b> |  | Packer Set At<br><b>9189</b>                       |  | Formation<br><b>Morrow</b>                   |  |
| Producing Thru<br><b>TBG</b>                                                                                              |  | Reservoir Temp. °F<br><b>151.7</b>                                       |  | Mean Annual Temp. °F<br><b>60°</b>                 |  | Baro. Press. - P <sub>a</sub><br><b>13.2</b> |  |
| L<br><b>9189</b>                                                                                                          |  | II<br><b>9189</b>                                                        |  | G <sub>g</sub><br><b>.707</b>                      |  | % CO <sub>2</sub><br><b>.204</b>             |  |
|                                                                                                                           |  |                                                                          |  | % N <sub>2</sub><br><b>1.194</b>                   |  | % H <sub>2</sub> S<br><b>0</b>               |  |
|                                                                                                                           |  |                                                                          |  | Prover<br><b>0</b>                                 |  | Meter Run<br><b>3.068</b>                    |  |
|                                                                                                                           |  |                                                                          |  |                                                    |  | Taps<br><b>F/G</b>                           |  |

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>h <sub>w</sub> | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. |                        | Temp.<br>°F |
| SI        |                        |   |                 |                    |                         |             | 1168               |             |                    |                        |             |
| 1.        | 3.068 X 1.000          |   |                 | 873                | 1.09                    | 89°         | 950                |             | PKR                | -                      | 24 Hrs      |
| 2.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 3.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 4.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |
| 5.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |

| RATE OF FLOW CALCULATIONS |                                          |                                                                                     |                            |                                     |                                  |                                            |                         |
|---------------------------|------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------|----------------------------------|--------------------------------------------|-------------------------|
| NO.                       | COEFFICIENT<br>(24 HOUR)                 |  | Pressure<br>P <sub>m</sub> | Flow Temp.<br>Factor F <sub>t</sub> | Gravity Factor<br>F <sub>g</sub> | Super Compress.<br>Factor, F <sub>sp</sub> | Rate of Flow<br>Q, Mcfd |
| 1.                        |                                          |                                                                                     |                            |                                     |                                  |                                            |                         |
| 2.                        |                                          |                                                                                     |                            |                                     |                                  |                                            | 178                     |
| 3.                        | GAS VOLUMES MEASURED BY TOTAL FLOW METER |                                                                                     |                            |                                     |                                  |                                            |                         |
| 4.                        |                                          |                                                                                     |                            |                                     |                                  |                                            |                         |
| 5.                        |                                          |                                                                                     |                            |                                     |                                  |                                            |                         |

| NO. | P <sub>r</sub>        | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio               | Mcf/bbl    |
|-----|-----------------------|----------|----------------|---|--------------------------------------------|------------|
| 1.  |                       |          |                |   | 21.446                                     |            |
| 2.  |                       |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons 63.8 | Deg.       |
| 3.  |                       |          |                |   | Specific Gravity Separator Gas .707        | XXXXXXXXXX |
| 4.  |                       |          |                |   | Specific Gravity Flowing Fluid N/A         | XXXXXX     |
| 5.  |                       |          |                |   | Critical Pressure 670                      | PSIA       |
|     |                       |          |                |   | Critical Temperature 386                   | R          |
|     | P <sub>c</sub> 1673.2 |          |                |   | P <sub>c</sub> 2799.6                      |            |

| NO. | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | 1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.740$ | 2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.740$ |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|
| 1.  |                             | 1333.4         | 1777.9                      | 1021.7                                                    |                                          |                                                           |
| 2.  |                             |                |                             |                                                           |                                          |                                                           |
| 3.  |                             |                |                             |                                                           |                                          |                                                           |
| 4.  |                             |                |                             |                                                           |                                          |                                                           |
| 5.  |                             |                |                             |                                                           |                                          |                                                           |

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 488$

|                                                                        |  |                                          |  |                               |  |
|------------------------------------------------------------------------|--|------------------------------------------|--|-------------------------------|--|
| Absolute Open Flow <b>488</b> Mcfd @ 15.025                            |  | Angle of Slope $\theta$ <b>45°</b>       |  | Slope, n <b>1.000</b>         |  |
| Remarks: <b>*Calculated from known bottom hole pressure</b>            |  |                                          |  |                               |  |
| <b>*Well made 8.3 BBLS of 63.8 API gravity condensate during test.</b> |  |                                          |  |                               |  |
| Approved By Division                                                   |  | Conducted By:<br><b>Pro Well Testing</b> |  | Calculated By:<br><b>M.B.</b> |  |
|                                                                        |  |                                          |  | Checked By:<br><b>B.M.</b>    |  |