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State of New Mexico  
Energy Minerals and Natural Resources

Form C-122  
Revised October, 1999

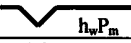
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

30-025-36437

**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

|                                                                                                                        |                         |                                  |                                 |                                                          |                                             |                                             |                            |                                                      |                       |
|------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------|---------------------------------|----------------------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------|------------------------------------------------------|-----------------------|
| Operator <b>Fasken Oil and Ranch, Ltd.</b>                                                                             |                         |                                  |                                 |                                                          | Lease or Unit Name <b>Laguna "16" State</b> |                                             |                            |                                                      |                       |
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                         |                                  |                                 |                                                          | Test Date <b>4-11-2004</b>                  |                                             | Well No. <b>1</b>          |                                                      |                       |
| Completion Date <b>2-28-2004</b>                                                                                       |                         | Total Depth <b>13,372'</b>       |                                 | Plug Back TD <b>13,155'</b>                              |                                             | Elevation <b>3512'</b>                      |                            | Unit Ltr. - Sec. - TWP - Rge.<br><b>P 16 20S 32E</b> |                       |
| Csg. Size<br><b>5-1/2"</b>                                                                                             | Wt.<br><b>17&amp;20</b> | d<br><b>4.778</b>                | Set At<br><b>13,372'</b>        | Perforations:<br>From: <b>12,008'</b> To: <b>12,015'</b> |                                             |                                             |                            | County<br><b>Lea</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>11,954'</b>        | Perforations:<br>From: To:                               |                                             |                                             |                            | Pool<br><b>Wildcat (Strawn)</b>                      |                       |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single</b>                                               |                         |                                  |                                 |                                                          | Packer Set At<br><b>11,954'</b>             |                                             | Formation<br><b>Strawn</b> |                                                      |                       |
| Producing Thru<br>Tubing                                                                                               |                         | Reservoir Temp. °F<br><b>176</b> |                                 | Mean Annual Temp. °F<br><b>60</b>                        |                                             | Baro. Press - P <sub>a</sub><br><b>13.2</b> |                            | Connection<br><b>Duke Energy Field Serv.</b>         |                       |
| L<br><b>11954</b>                                                                                                      | H<br><b>11954</b>       | Gg<br><b>0.638</b>               | %CO <sub>2</sub><br><b>0.27</b> | %N <sub>2</sub><br><b>0.60</b>                           | %H <sub>2</sub> S<br><b>0.00</b>            | Prover<br><b>Orifice</b>                    |                            | Meter Run<br><b>3"</b>                               | Taps<br><b>Flange</b> |

| FLOW DATA |                        |                      |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>Of<br>Flow |
|-----------|------------------------|----------------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|
| No.       | Prover<br>Line<br>Size | Orifice<br>X<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. |                        |
| SI        |                        |                      |                    |                         |             | <b>5385</b>        | <b>75</b>   | <b>0</b>           |                        |
| 1.        | <b>3.068" x 1.25"</b>  |                      | <b>195</b>         | <b>3.44</b>             | <b>90</b>   | <b>195</b>         | <b>90</b>   | <b>0</b>           |                        |
| 2.        |                        |                      |                    |                         |             |                    |             |                    |                        |
| 3.        |                        |                      |                    |                         |             |                    |             |                    |                        |
| 4.        |                        |                      |                    |                         |             |                    |             |                    |                        |
| 5.        |                        |                      |                    |                         |             |                    |             |                    |                        |

| RATE OF FLOW CALCULATIONS |                          |                                                                                     |                            |                          |                                  |                                            |                         |
|---------------------------|--------------------------|-------------------------------------------------------------------------------------|----------------------------|--------------------------|----------------------------------|--------------------------------------------|-------------------------|
| No.                       | COEFFICIENT<br>(24 HOUR) |  | Pressure<br>P <sub>m</sub> | Flow Temp.<br>Factor Ft. | Gravity Factor<br>F <sub>g</sub> | Super Compress.<br>Factor, F <sub>pv</sub> | Rate of Flow<br>Q, Mcfd |
| 1.                        | <b>7.577</b>             | <b>26.75</b>                                                                        | <b>208.2</b>               | <b>0.9723</b>            | <b>1.252</b>                     | <b>1.0174</b>                              | <b>251</b>              |
| 2.                        |                          |                                                                                     |                            |                          |                                  |                                            |                         |
| 3.                        |                          |                                                                                     |                            |                          |                                  |                                            |                         |
| 4.                        |                          |                                                                                     |                            |                          |                                  |                                            |                         |
| 5.                        |                          |                                                                                     |                            |                          |                                  |                                            |                         |

| No. | P <sub>r</sub> | Temp. °R   | T <sub>r</sub> | Z            | Gas Liquid Hydrocarbon Ratio <b>6605</b> Mcf/bbl.      |  |  |
|-----|----------------|------------|----------------|--------------|--------------------------------------------------------|--|--|
| 1.  | <b>0.311</b>   | <b>550</b> | <b>1.478</b>   | <b>0.966</b> | A. P. I. Gravity of Liquid Hydrocarbons <b>48</b> Deg. |  |  |
| 2.  |                |            |                |              | Specific Gravity Separator Gas <b>0.638</b> XXXXXXXXX  |  |  |
| 3.  |                |            |                |              | Specific Gravity Flowing Fluid <b>0.963</b> XXXXX      |  |  |
| 4.  |                |            |                |              | Critical Pressure <b>670</b> Sep P.S.I.A. P.S.I.A.     |  |  |
| 5.  |                |            |                |              | Critical Temperature <b>372</b> Sep R. R.              |  |  |

| P <sub>c</sub> <b>5398.2</b> |                             | P <sub>c</sub> <sup>2</sup> <b>29141.6</b> |                             | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{29141.6}{29097.2}$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.002$<br><br>AOF = Q (251) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 251$ |  |                                                           |
|------------------------------|-----------------------------|--------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|
| No.                          | P <sub>i</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.                           | <b>38.0</b>                 | <b>208.2</b>                               | <b>43.4</b>                 |                                                                                                                                                                                                  |  | <b>29097.2</b>                                            |
| 2.                           |                             |                                            |                             |                                                                                                                                                                                                  |  |                                                           |
| 3.                           |                             |                                            |                             |                                                                                                                                                                                                  |  |                                                           |
| 4.                           |                             |                                            |                             |                                                                                                                                                                                                  |  |                                                           |
| 5.                           |                             |                                            |                             |                                                                                                                                                                                                  |  |                                                           |

|                                                                                                             |  |                                                    |                                     |                      |
|-------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|-------------------------------------|----------------------|
| Absolute Open Flow <b>251</b>                                                                               |  | Mcf/d @ 15.025                                     | Angle of Slope θ: <b>45</b>         | Slope, n: <b>1.0</b> |
| Remarks:                                                                                                    |  |                                                    |                                     |                      |
| Approved By Division<br> |  | Conducted By:<br><b>Fasken Oil and Ranch, Ltd.</b> | Calculated By:<br><b>Carl Brown</b> | Checked By:          |

Fasken Oil and Ranch, Ltd.  
 Laguna "16" State No. 1  
 Unit P, Sec 16, T20S, R32E  
 Wildcat (Strawn) Pool  
 Lea County, NM

