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State of New Mexico  
Energy Minerals and Natural Resou.

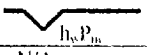
Form C-122  
Revised October, 1999

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

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

|                                                                                                              |               |                     |                           |                                          |                    |                                    |         |                                          |               |  |  |
|--------------------------------------------------------------------------------------------------------------|---------------|---------------------|---------------------------|------------------------------------------|--------------------|------------------------------------|---------|------------------------------------------|---------------|--|--|
| Operator: E.O.G. Resources, Inc.                                                                             |               |                     |                           |                                          |                    | Lease or Unit Name: Oaklake 14 Fed |         |                                          |               |  |  |
| Type Test: <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |               |                     |                           |                                          |                    | Test Date: 01-11-00 Well No.: 1    |         |                                          |               |  |  |
| Completion Date: 1-29-00                                                                                     |               | Total Depth: 13,350 |                           | Plug Back TD: 10,788                     |                    | Elevation: 3000                    |         | Unit Ltr. - Sec. - TWP - Rge<br>14 17 30 |               |  |  |
| Csg. Size:<br>5 1/2"                                                                                         | Wt.<br>17#    | D<br>4.892          | Set At<br>4,490           | Perforations:<br>From: 10,212 To: 10,359 |                    |                                    |         | County: Eddy, NM                         |               |  |  |
| Thg. Size:<br>2 7/8"                                                                                         | Wt.<br>6.5#   | D<br>2.441          | Set At<br>10,075          | Perforations:<br>From: To:               |                    |                                    |         | Pool<br>W/C Strawn                       |               |  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                            |               |                     |                           |                                          |                    | Packer Set At: 10,059              |         | Formation: Strawn                        |               |  |  |
| Producing Thru<br>Tbg.                                                                                       |               | Reservoir Temp. °F. |                           | Mean Annual Temp. °F. 60                 |                    | Baro. Press - P <sub>a</sub> 13.2  |         | Connection: Sales                        |               |  |  |
| L:<br>10,059'                                                                                                | H:<br>10,059' | Gg:<br>729          | %CO <sub>2</sub> :<br>284 | %N <sub>2</sub> :<br>2.394               | %H <sub>2</sub> S: |                                    | Prover: | Meter Run<br>4.026                       | Taps:<br>Fig. |  |  |

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>Of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| No.       | Prover<br>Line<br>Size | X | Onifice<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        |                        |   |                 |                    |                         |             | 1015               | N/A         | PKR                | N/A                    |             |
| 1.        | 4"                     | x | 2.375           | 567.2              | N/A                     | 70          | 955                | N/A         | PKR                | N/A                    | 1 Hr.       |
| 2.        | 4"                     | x | 2.375           | 573.1              | N/A                     | 64          | 870                | N/A         | PKR                | N/A                    | 1 Hr.       |
| 3.        | 4"                     | x | 2.375           | 574.3              | N/A                     | 66          | 790                | N/A         | PKR                | N/A                    | 1 Hr.       |
| 4.        | 4"                     | x | 2.375           | 575.4              | N/A                     | 68          | 700                | N/A         | PKR                | N/A                    | 1 Hr.       |
| 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.                        | Gas by Total Flow        | N/A                                                                                 | N/A                        | N/A                      | N/A                              | N/A                                        | 345                     |
| 2.                        | Gas by Total Flow        | N/A                                                                                 | N/A                        | N/A                      | N/A                              | N/A                                        | 602                     |
| 3.                        | Gas by Total Flow        | N/A                                                                                 | N/A                        | N/A                      | N/A                              | N/A                                        | 748                     |
| 4.                        | Gas by Total Flow        | N/A                                                                                 | N/A                        | N/A                      | N/A                              | N/A                                        | 1,003                   |
| 5.                        |                          |                                                                                     |                            |                          |                                  |                                            |                         |

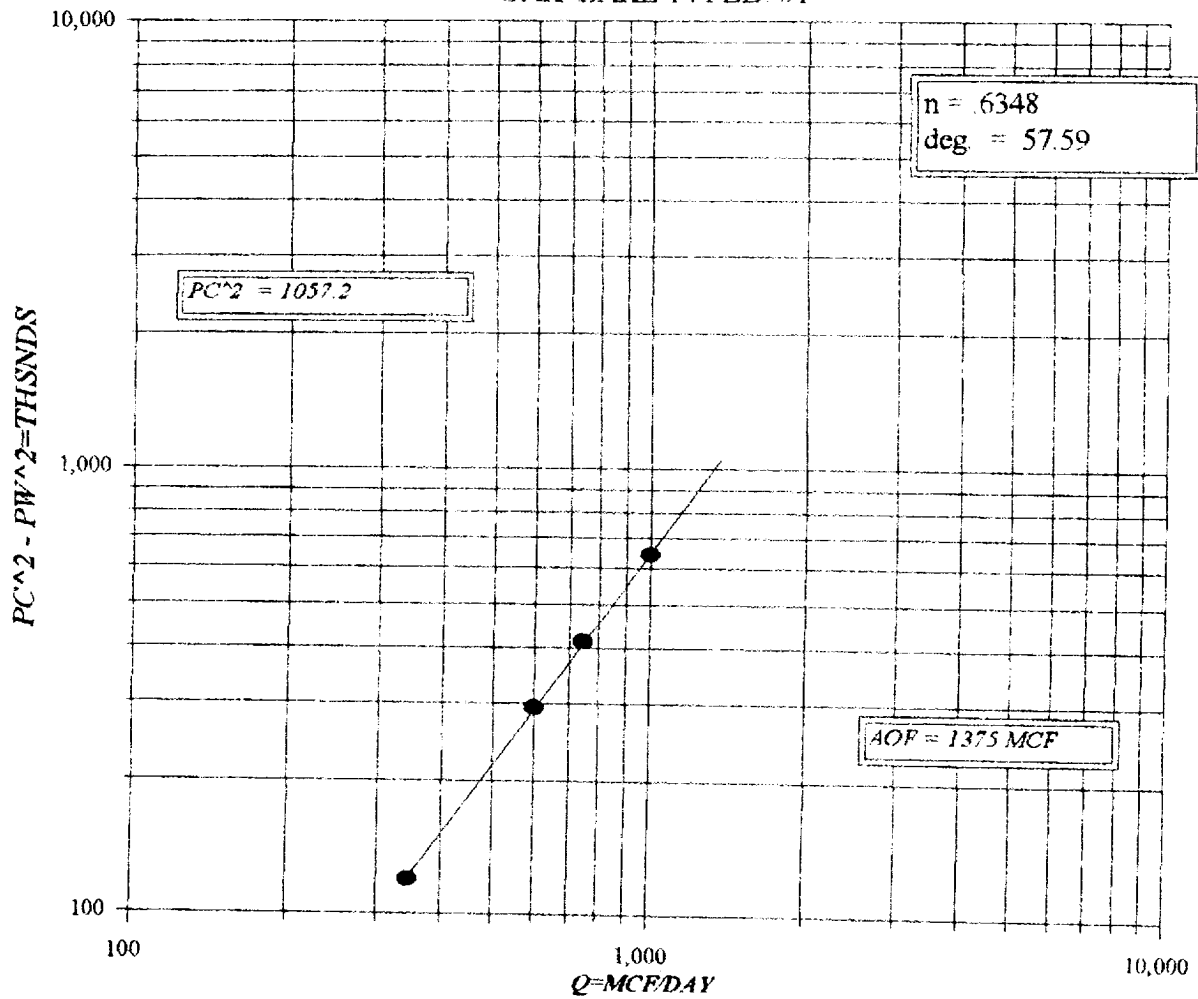
| No. | P <sub>r</sub> | Temp. °R | T <sub>i</sub> | Z   | Gas Liquid Hydrocarbon Ratio        | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
|-----|----------------|----------|----------------|-----|-------------------------------------|-----------------------------------------|----------------------|
| 1.  | N/A            | N/A      | N/A            | N/A | 4.461                               | N/A                                     | 345                  |
| 2.  | N/A            | N/A      | N/A            | N/A | 54.6@ 60                            | N/A                                     | 602                  |
| 3.  | N/A            | N/A      | N/A            | N/A | Specific Gravity Separator Gas .729 | N/A                                     | 748                  |
| 4.  | N/A            | N/A      | N/A            | N/A | Specific Gravity Flowing Gas .729   | N/A                                     | 1,003                |
| 5.  |                |          |                |     |                                     |                                         |                      |

| No. | P <sub>c</sub> | 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) P <sub>c</sub> <sup>2</sup> = 1.643 | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.370$ |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|
| 1.  | N/A            | 968.3          | 937.5                       | 119.6                                                     | $\frac{P_c^2}{P_c^2 - P_w^2}$           | $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.375$     |
| 2.  | N/A            | 874.3          | 764.4                       | 292.8                                                     |                                         |                                                            |
| 3.  | N/A            | 803.6          | 645.7                       | 411.5                                                     |                                         |                                                            |
| 4.  | N/A            | 643.2          | 413.7                       | 643.5                                                     |                                         |                                                            |
| 5.  |                |                |                             |                                                           |                                         |                                                            |

|                                            |                                                                    |                                                                      |                                                                   |                |
|--------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------|
| Absolute Open Flow                         |                                                                    | 1,375 Mcfd @ 15.025                                                  | Angle of Slope θ: 57.59                                           | Slope, n: 6348 |
| Remarks: Total Fluid 25.2 BBLs 54.6 API GR |                                                                    |                                                                      |                                                                   |                |
| Approved By Division                       | Conducted By:<br>Production Testing Services, Inc.<br>505-391-8703 | Calculated By:<br>Bob Murray, Independent Consultant<br>505-395-2349 | Checked By:<br>Bob Murray, Independent Consultant<br>505-395-2349 |                |

# E.O.G. RESOURCES

OAK LAKE 14 FED #1



**Production Testing Services, Inc.**  
Hobbs, New Mexico  
505-391-8703

[illegible]

## Absolute Open Flow Field Data Sheet