

# SPIRIT ENERGY 76

New Name. Same Spirit.  
A Business Unit of Unocal

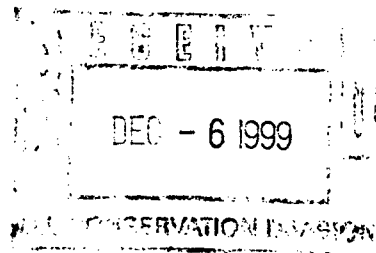
DHC 12/27/99

2537

December 2, 1999

U.S. Department of the Interior  
Bureau of Land Management  
Attn.: Jim LaVato  
1235 La Plata Highway  
Farmington, NM 87401

New Mexico Oil Conservation Division  
Attn.: David Catanach  
2040 S. Pacheco Street  
Santa Fe, NM 87505-6429  
Cc: NMOCD, 1000 Rio Brazos Road  
Aztec, NM 87410



Gentlemen,

Union Oil Company of California (UNOCAL) requests approval to down hole commingle production from the Blanco Mesaverde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

| Well | Lease   | Legal Location                             |
|------|---------|--------------------------------------------|
| 172M | Federal | 1575' FNL, 1345' FWL, NW Sec 26, T27N, R7W |
| 169M | Federal | 1165' FSL, 1030' FEL, SE Sec 26, T27N, R7W |

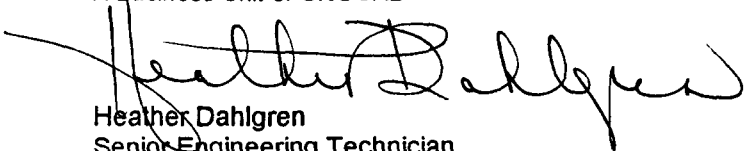
As provided by Order No. R-9893, administrative approval may be granted without notice and hearing.

Form C-107-A with supporting data is attached.

If you have any questions please contact Heather Dahlgren at (915) 685-7665.

Sincerely,

**Spirit Energy 76**  
A Business Unit of UNOCAL

  
Heather Dahlgren  
Senior Engineering Technician

**DISTRICT I**  
1625 N. French Dr., Hobbs, NM 88240  
**DISTRICT II**  
611 South First St., Artesia, NM 88210  
**DISTRICT III**  
1000 Rio Brazos Rd, Aztec, NM 87410  
**DISTRICT IV**  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107-A  
Revised August 1999

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

UNION OIL COMPANY OF CALIFORNIA (UNOCAL)

1004 N. B'G SPRING, MIDLAND, TX 79702

Operator

Address

RINCON UNIT

172M

F 26-27N-7W

RIO ARRIBA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Specing Unit Lease Types: (check 1 or more)

OGRID NO. 023708 Property Code 011510 API NO. 30-039-26208 Federal ☒ State ☐  
(and/or) Fee           

| The following facts are submitted in support of downhole commingling:                                                                                                       | Upper Zone                              | Intermediate Zone | Lower Zone         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|--------------------|
| 1. Pool Name and Pool Code                                                                                                                                                  | BLANCO MESAVERDE 72319                  |                   | BASIN DAKOTA 71599 |
| 2. Top and Bottom of Pay Section (Perforations)                                                                                                                             | 5213-5388                               |                   | 7334-7516          |
| 3. Type of production (Oil or Gas)                                                                                                                                          | GAS                                     |                   | GAS                |
| 4. Method of Production (Flowing or Artificial Lift)                                                                                                                        | FLOWING                                 |                   | FLOWING            |
| 5. Bottomhole Pressure<br>Oil Zones - Artificial Lift:<br>Gas & Oil - Flowing:<br>All Gas Zones:<br>Estimated Current<br>Measured Current<br>Estimated Or Measured Original | a. (Current) 1300<br>b. (Original) 1300 | a.<br>b.          | a. 1690<br>b. 1690 |
| 6. Oil Gravity (EAPI) or Gas BTU Content                                                                                                                                    | 1230                                    |                   | 1170               |
| 7. Producing or Shut-In?                                                                                                                                                    | Shut in                                 |                   | Shut in            |
| Production Marginal? (yes or no)                                                                                                                                            | yes                                     |                   | yes                |
| * If Shut-In, give date and oil/gas/water rates of last production                                                                                                          | Date:<br>Rates:                         | Date:<br>Rates:   | Date:<br>Rates:    |
| Note: For new zones with no production history, applicant shall be required to attach production estimates and rates.                                                       | Date:                                   | Date:             | Date:              |

**DISTRICT I**  
1825 N. French Dr., Hobbs, NM 88240  
**DISTRICT II**  
811 South First St., Artesia, NM 88210  
**DISTRICT III**  
1000 Rio Brazos Rd, Aztec, NM 87410  
**DISTRICT IV**  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107-A  
Revised August 1999

**APPROVAL PROCESS:**

☒ Administrative ☐ Hearing

**EXISTING WELLBORE**

☐ YES ☒ NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

**UNION OIL COMPANY OF CALIFORNIA (UNOCAL)**

1004 N. BIG SPRING, MIDLAND, TX 79702

Operator

Address

**RINCON UNIT**

159M

P 26-27N-7W

**RIO ARRIBA**

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 023708 Property Code 011510 API NO. 30-039-26207 Federal ☒ State ☐  
(and/or) Fee

| The following facts are submitted in support of downhole commingling:                                                                                                       | Upper Zone                              | Intermediate Zone | Lower Zone         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|--------------------|
| 1. Pool Name and Pool Code                                                                                                                                                  | BLANCO MESAVERDE 72319                  |                   | BASIN DAKOTA 71599 |
| 2. Top and Bottom of Pay Section (Perforations)                                                                                                                             | 5288-5475                               |                   | 7378-7602          |
| 3. Type of production (Oil or Gas)                                                                                                                                          | GAS                                     |                   | GAS                |
| 4. Method of Production (Flowing or Artificial Lift)                                                                                                                        | FLOWING                                 |                   | FLOWING            |
| 5. Bottomhole Pressure<br>Oil Zones - Artificial Lift:<br>Gas & Oil - Flowing:<br>All Gas Zones:<br>Estimated Current<br>Measured Current<br>Estimated Or Measured Original | a. (Current) 1190<br>b. (Original) 1190 | a.<br>b.          | a. 1700<br>b. 1700 |
| 6. Oil Gravity (EAPI) or Gas BTU Content                                                                                                                                    | 1230                                    |                   | 1170               |
| 7. Producing or Shut-In?                                                                                                                                                    | Shut in                                 |                   | Shut in            |
| Production Marginal? (yes or no)                                                                                                                                            | yes                                     |                   | yes                |
| * If Shut-in, give date and oil/gas/water rates of last production                                                                                                          | Date:<br>Rates:                         | Date:<br>Rates:   | Date:<br>Rates:    |
| Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data                                              | Date:                                   | Date:             | Date:              |

December 2, 1999

**Supplemental Data in Support of Downhole Commingling Application**  
**Rincon Unit Wells 172M and 169M**

In 1992, Union Oil Company of California (UNOCAL) began developing Infill Dakota/Mesaverde locations on the Rincon Unit. Since that time, 40 Dakota/Mesaverde wells have been approved for Downhole Commingling. As spacing rules change, commingling continues to be the most economic method of developing reserves on the Rincon Unit.

The last seven years of new development have provided us with an ever increasing database of production histories, pressure data and geologic data. In support of this application, UNOCAL feels that this database provides an equitable and accurate means for allocating production between the commingled pools. Production allocation factors for the above wells will use the following data:

- A) Initial production flow tests.
- B) Offset well production history.
- C) Production profile models.
- D) Net pay.

While differences of production allocation do occur on the Rincon Unit, the average allocation is 60% Dakota, 40% Mesaverde. Wide variances from these averages can be attributed to geology. Through out most of the unit, the Dakota formation provides less geologic and production variability than does the Mesaverde. To determine the contribution of the Mesaverde in a given area and well, flow tests, offset production, model decline comparisons and net pay must be considered. The enclosed attachments provide examples of the types of supporting data that will be used to derive the allocation percentages.

Unocal is in the process of completing the production flow tests. We would request that the application be approved based on the above with allocation factors to be provided within the first 60 days of commingled production.

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                           |                                                    |                      |                                  |
|---------------------------|----------------------------------------------------|----------------------|----------------------------------|
| * API Number              |                                                    | * Pool Code<br>72319 | * Pool Name<br>Blanco Mesa Verde |
| * Property Code<br>011510 | * Property Name<br>RINCON UNIT                     |                      | * Well Number<br>172M            |
| * OGRID No.<br>023710     | * Operator Name<br>UNION OIL COMPANY OF CALIFORNIA |                      | * Elevation<br>6665              |

10 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| 6             | 26      | 27 N     | 7 W   |         | 1575          | North            | 1345          | West           | Rio Arriba |

11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

|                          |                   |                      |             |
|--------------------------|-------------------|----------------------|-------------|
| * Dedicated Acres<br>320 | * Joint or Infill | * Consolidation Code | * Order No. |
|--------------------------|-------------------|----------------------|-------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|             |  |  |  |                     |  |                                                                                                                                                                                                               |  |
|-------------|--|--|--|---------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| BC 588°33'W |  |  |  | BC 79.92CH.         |  | 17 OPERATOR CERTIFICATION                                                                                                                                                                                     |  |
| 4           |  |  |  | 2                   |  | I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief                                                                                            |  |
| 3           |  |  |  | 1                   |  | Signature<br>Michael C. Phillips                                                                                                                                                                              |  |
| 1575'       |  |  |  | Lot No. (TYP.)<br>1 |  | Printed Name<br>Rocky Mt. Drilling Foreman                                                                                                                                                                    |  |
| 5           |  |  |  | 7                   |  | Title<br>July 20, 1999                                                                                                                                                                                        |  |
| 6           |  |  |  | 8                   |  | Date                                                                                                                                                                                                          |  |
| 1345'       |  |  |  | BC                  |  | 18 SURVEYOR CERTIFICATION                                                                                                                                                                                     |  |
| SEC.        |  |  |  | 26                  |  | I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. |  |
| 12          |  |  |  | 10                  |  | Date of Survey<br>June 1999                                                                                                                                                                                   |  |
| 11          |  |  |  | 9                   |  | Signature and Seal of Professional Surveyor:<br>#8466                                                                                                                                                         |  |
| 13          |  |  |  | 15                  |  | Date of Survey<br>June 1999                                                                                                                                                                                   |  |
| 14          |  |  |  | 16                  |  | Signature and Seal of Professional Surveyor:<br>#8466                                                                                                                                                         |  |
| 1575'       |  |  |  | BC                  |  | Certificate Number 8466                                                                                                                                                                                       |  |
| 589°43'W    |  |  |  | 79.93CH.            |  | William E. Mathews II                                                                                                                                                                                         |  |
| BC          |  |  |  | BC                  |  | New Mexico Oil Conservation Division                                                                                                                                                                          |  |

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State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

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WELL LOCATION AND ACREAGE DEDICATION PLAT

|                           |  |                                                    |  |                             |                       |  |
|---------------------------|--|----------------------------------------------------|--|-----------------------------|-----------------------|--|
| 1 AIT Number              |  | 2 Pool Code<br>71599                               |  | 3 Pool Name<br>Basin Dakota |                       |  |
| 4 Property Code<br>011510 |  | 5 Property Name<br>RINCON UNIT                     |  |                             | 6 Well Number<br>172M |  |
| 7 OGRID No.<br>023710     |  | 8 Operator Name<br>UNION OIL COMPANY OF CALIFORNIA |  |                             | 9 Elevation<br>6665   |  |

10 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| 6             | 26      | 27 N     | 7 W   |         | 1575          | North            | 1345          | West           | Rio Arriba |

11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

|                           |                    |                       |              |
|---------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres<br>320 | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|---------------------------|--------------------|-----------------------|--------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  |  |  | <b>17 OPERATOR CERTIFICATION</b><br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.<br><br>Signature: <u>Michael C. Phillips</u><br>Printed Name: <u>Rocky Mt. Drilling Foreman</u><br>Title: <u>July 20, 1999</u><br>Date:                                                                                                                                                      |  |
|  |  |  |  | <b>18 SURVEYOR CERTIFICATION</b><br>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.<br><br>Date of Survey: <u>JUL 20 1999</u><br>Signature and Seal of Professional Surveyor: <u>William E. Malake II</u><br>Registered Professional Surveyor #8466<br>Certificate Number: <u>8466</u> |  |

New Mexico Oil Conservation Division

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994  
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OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-9208

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070 FARMINGTON, NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                 |                                 |             |               |
|-----------------|---------------------------------|-------------|---------------|
| * AIT Number    |                                 | * Pool Code | * Pool Name   |
|                 |                                 | 71599       | Basin Dakota  |
| * Property Code | * Property Name                 |             | * Well Number |
| 011510          | RINCON UNIT                     |             | 169M          |
| * OGRID No.     | * Operator Name                 |             | * Elevation   |
| 023710          | UNION OIL COMPANY OF CALIFORNIA |             | 6696          |

10 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn. | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|----------|---------------|------------------|---------------|----------------|------------|
| 16            | 26      | 27 N     | 7 W   |          | 1165          | South            | 1030          | East           | Rio Arriba |

11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn. | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|----------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |          |               |                  |               |                |        |

|                   |                   |                      |             |
|-------------------|-------------------|----------------------|-------------|
| " Dedicated Acres | " Joint or Infill | " Consolidation Code | " Order No. |
| 320               |                   |                      |             |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|                                                                                                                                                |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <p>BC 588°33'W</p> <p>4 3 2</p> <p>LOT No. (TYP.)</p> <p>1</p> <p>84.00cn.</p>                                                                 |  |  |  | <p>BC 79.92cn.</p> <p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Michael C. Phillips</i></p> <p>Signature</p> <p>Michael C. Phillips</p> <p>Printed Name</p> <p>Rocky Mt. Drilling Foreman</p> <p>Title</p> <p>June 22, 1999</p> <p>Date</p>                                                                                                                                 |  |  |  |
| <p>5 6 7 8</p> <p>SEC.</p> <p>85.68cn.</p>                                                                                                     |  |  |  | <p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief</p> <p><i>William S. Mahake II</i></p> <p>Signature and Seal of Professional Surveyor</p> <p>NEW MEXICO</p> <p>REGISTERED PROFESSIONAL LAND SURVEYOR</p> <p>#8466</p> <p>William S. Mahake II</p> <p>Certificate Number 8466</p> |  |  |  |
| <p>BC 26</p> <p>12 11 10 9</p> <p>13 14 15 16</p> <p>589°43'W</p> <p>BC</p> <p>29.73cn.</p> <p>BC</p> <p>1030'</p> <p>1165'</p> <p>NO 25'E</p> |  |  |  | <p>NO 25'E</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |



## Offset Commingle Well Data to Wells 172M and 169M

### Gas Production Data by Well

| Reference Wells | Location    | Completion Type | First Delivery | Initial Rate (MCFD) Commingled | Rate @ 3 months | Rate @ 6 months | Rate @ 12 months | GCUM @ 36 months (MMCF) | OCUM @ 36 months (MBBL) | Dakota Initial Rate (MCFD) | Mesaverde Initial Rate (MCFD) | Mesaverde (%) |
|-----------------|-------------|-----------------|----------------|--------------------------------|-----------------|-----------------|------------------|-------------------------|-------------------------|----------------------------|-------------------------------|---------------|
| 131E            | 27N-7W-36_C | DH Comm.        | Jan-31-96      | 1375                           | 900             | 740             | 565              | 590                     | 2.7                     | 521                        | 857                           | 62.2%         |
| 193M            | 27N-7W-35_D | Surf. Comm.     | Nov-14-95      | 1660                           | 911             | 553             | 360              | 441                     | 2.2                     | 877                        | 774                           | 46.9%         |
| 185E            | 27N-7W-22_J | Surf. Comm.     | Oct-24-95      | 800                            | 500             | 390             | 350              | 374                     | 2.2                     | 638                        | 168                           | 20.8%         |
| 178E            | 27N-7W-23_J | DH Comm.        | Oct-24-95      | 580                            | 318             | 390             | 375              | 333                     | 1.2                     | 414                        | 166                           | 28.6%         |
| 138E            | 27N-7W-25_F | DH Comm.        | Dec-12-94      | 350                            | 563             | 195             | 193              | 256                     | 0.5                     | 220                        | 130                           | 37.1%         |

### Average Gas Production Data

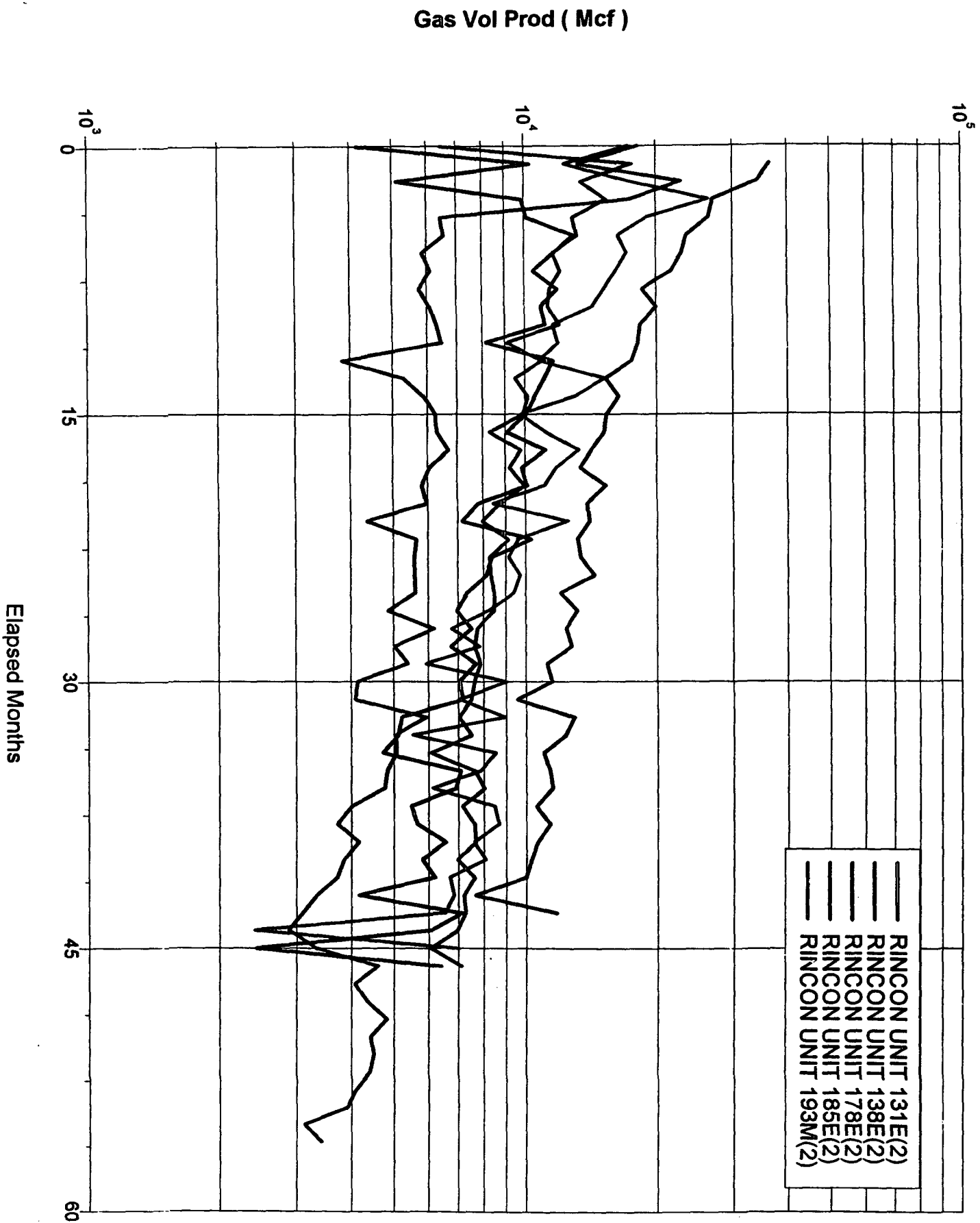
|           |                                                 | Initial Rate (MCFD) Commingled | Rate @ 3 months | Rate @ 6 months | Rate @ 12 months | GCUM @ 36 months (MMCF) | OCUM @ 36 months (MBBL) | Dakota Initial Rate (MCFD) | Mesaverde Initial Rate (MCFD) | Mesaverde (%) |
|-----------|-------------------------------------------------|--------------------------------|-----------------|-----------------|------------------|-------------------------|-------------------------|----------------------------|-------------------------------|---------------|
| Average 1 | Mesaverde Contribution High (Wells 193M & 131E) | 1518                           | 906             | 647             | 463              | 515                     | 2.5                     | 699                        | 816                           | 54.5%         |
| Average 2 | Mesaverde Contribution Avg. (Wells 178E & 185E) | 690                            | 409             | 390             | 363              | 353                     | 2                       | 526                        | 167                           | 24.7%         |
| Low Case  | Dakota Below Avg./ Mesaverde Avg. (Well 138E)   | 350                            | 563             | 195             | 193              | 256                     | 1                       | 220                        | 130                           | 37.1%         |

### Completion Data

|      | Dakota/Gr Interval | Mesaverde Interval | Dakota Frac | Graneros Frac | Mesaverde e Frac |
|------|--------------------|--------------------|-------------|---------------|------------------|
| 193M | 7338-7514          | 5362-5382          | 225M-XL     | 96M-XL        | 73M-L            |
| 131E | 7244-7456          | 5100-5402          | 200M-XL     | 100M-XL       | 75M-L            |
| 138E | 7490-7562          | 5206-5306          | 195M-XL     |               | 90M-L            |
| 178E | 7388-7593          | 5102-5486          | 210M-XL     | 92M-XL        | 60M-L            |
| 185E | 7364-7488          | 5326-5535          | 200M-XL     | 92M-XL        | 70M-L            |

\*Frac: Lbs. of Sand - Fluid Type XL (Cross Link Gel), L (Linear Gel)

# DK/MV Commingled Wells Surrounding Section 26-27N-7W



# **RINCON UNIT DAKOTA AND MESAVERDE PRODUCTION COMPARISON** **for Separately Metered New Completions (Dual or Single Completion Types)**

