

|                  |                 |             |           |          |
|------------------|-----------------|-------------|-----------|----------|
| DATE IN 12/15/99 | SUSPENSE 1/4/00 | ENGINEER DC | LOGGED MN | TYPE DHC |
|------------------|-----------------|-------------|-----------|----------|

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION <sup>2569</sup>  
 - Engineering Bureau -

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

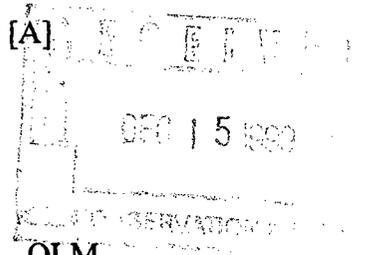
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling  
 NSL NSP DD SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement  
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX PMX SWD IPI EOR PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

*Peggy Cole*

Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

DISTRICT I  
1625 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**

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

SCHUMACHER

11M

O 18-30N-10W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7491 API NO. 30-039-XXXX 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)   | WILL BE SUPPLIED UPON COMPLETION                  |   | WILL BE SUPPLIED UPON COMPLETION                  |
| 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)<br>419 psi (see attachment)          |   | a. (Current)<br>892 psi (see attachment)          |
|   | b. (Original)<br>1200 psi (see attachment)        |   | b. (Original)<br>2442 psi (see attachment)        |
| 6. Oil Gravity (EAPI) or Gas BTU Content  | BTU 1195  |   | BTU 1089  |
| 7. Producing or Shut-In?  | SHUT-IN   |   | SHUT-IN   |
| Production Marginal? (yes or no)<br><br>* If Shut-In, give date and oil/gas/water rates of last production<br><br>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data<br><br>* If Producing, give date and oil/gas/water rates of recent test (within 60 days) | NO  |   | YES   |
|   | Date: N/A<br>Rates:                               | Date: N/A<br>Rates:                               | Date: N/A<br>Rates:                               |
|   | Date: N/A<br>Rates:                               | Date: N/A<br>Rates:                               | Date: N/A<br>Rates:                               |
| 8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)   | Oil: % Gas: %<br>WILL BE SUPPLIED UPON COMPLETION | Oil: % Gas: %<br>WILL BE SUPPLIED UPON COMPLETION | Oil: % Gas: %<br>WILL BE SUPPLIED UPON COMPLETION |

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones?  Yes  No  
If not, have all working, overriding, and royalty interests been notified by certified mail?  Yes  No

11. Will cross-flow occur?  Yes  No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable.  Yes  No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other?  Yes  No

13. Will the value of production be decreased by commingling?  Yes  No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application.  Yes  No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. ATTACHMENTS:

- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Dan T. Voecks* TITLE PRODUCTION ENGINEER DATE: 12/10/99

TYPE OR PRINT NAME DAN T. VOECKS

TELEPHONE NO. 505-326-9700

DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994

DISTRICT II  
P.O. Drawer DD, Artesia, N.M. 88211-0719

Instructions on back  
Submit to Appropriate District Office

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, NM 87504-2088

State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

AMENDED REPORT

DISTRICT IV  
PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |  |  |  |   |                                 |
|------------------------------------|--|--|--|---|---------------------------------|
| <sup>1</sup> API Number<br>30-045- |  | <sup>2</sup> Pool Code<br>72319/71599                                |  | <sup>3</sup> Pool Name<br>Blanco Mesaverde/Basin Dakota |                                 |
| <sup>4</sup> Property Code<br>7491 |  | <sup>5</sup> Property Name<br>SCHUMACHER                             |  |   | <sup>6</sup> Well Number<br>11M |
| <sup>7</sup> OGRID No.<br>14538    |  | <sup>8</sup> Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY |  |   | <sup>9</sup> Elevation<br>6394' |

<sup>10</sup> Surface Location

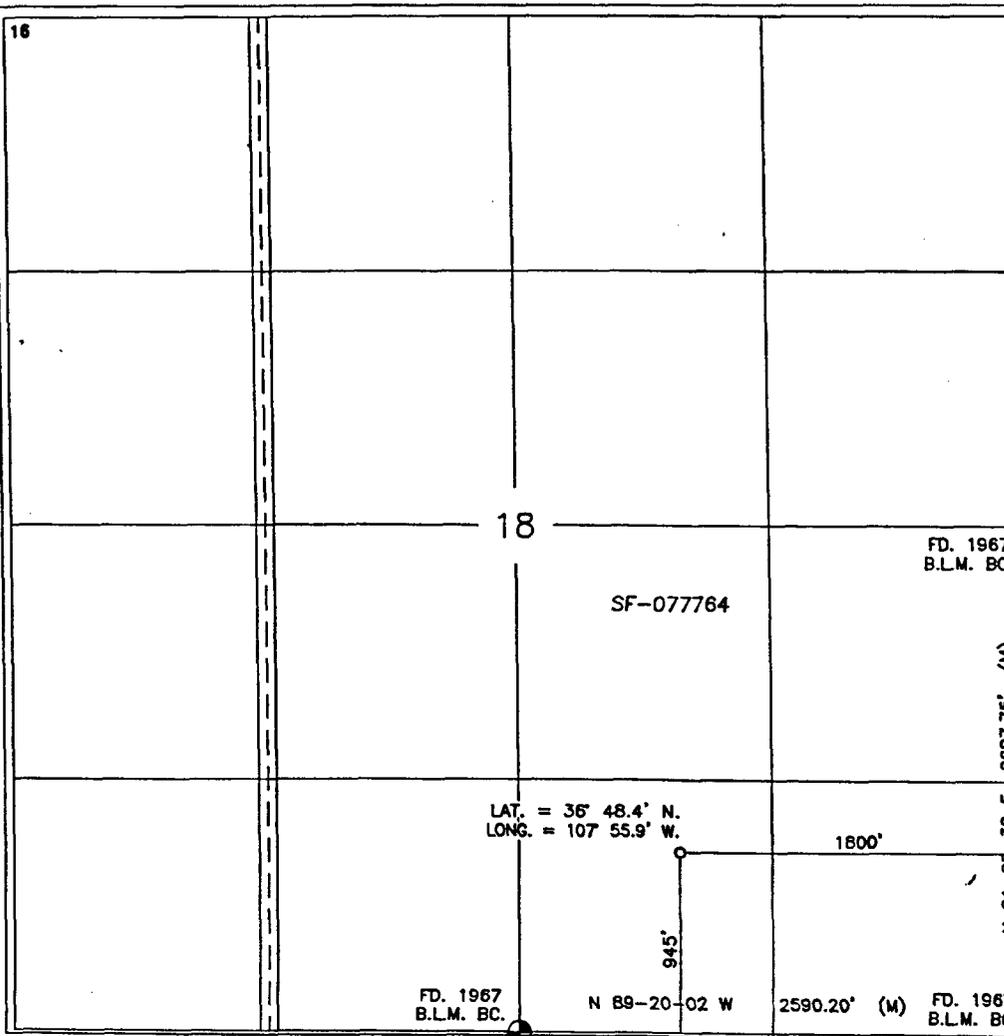
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| 0             | 18      | 30-N     | 10-W  |         | 945           | SOUTH            | 1800          | EAST           | SAN JUAN |

<sup>11</sup> 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

|  |   |   |                         |
|--|---|---|-------------------------|
| <sup>12</sup> Dedicated Acres<br>MV:E/320; | <sup>13</sup> Joint or Infill<br>DK:S/316 | <sup>14</sup> Consolidation Code<br>.50 | <sup>15</sup> 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



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature  
Peggy Cole  
Printed Name  
Regulatory Administrator  
Title

Date  
FD. 1967 B.L.M. BC.  
<sup>18</sup> SURVEYOR CERTIFICATION

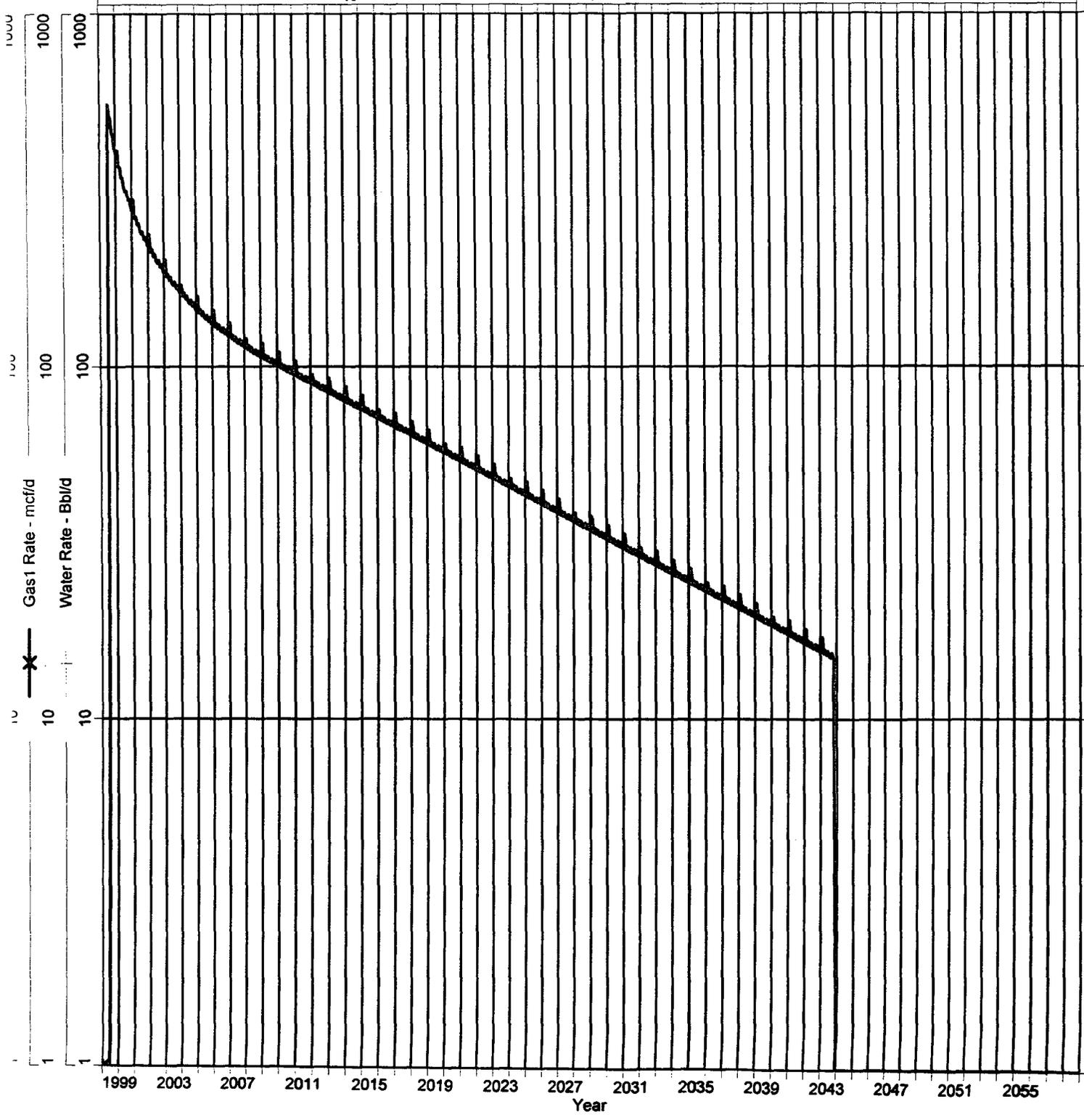
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey  
Signature  
Seal of Professional Surveyor  
8894  
8894  
Certificate Number



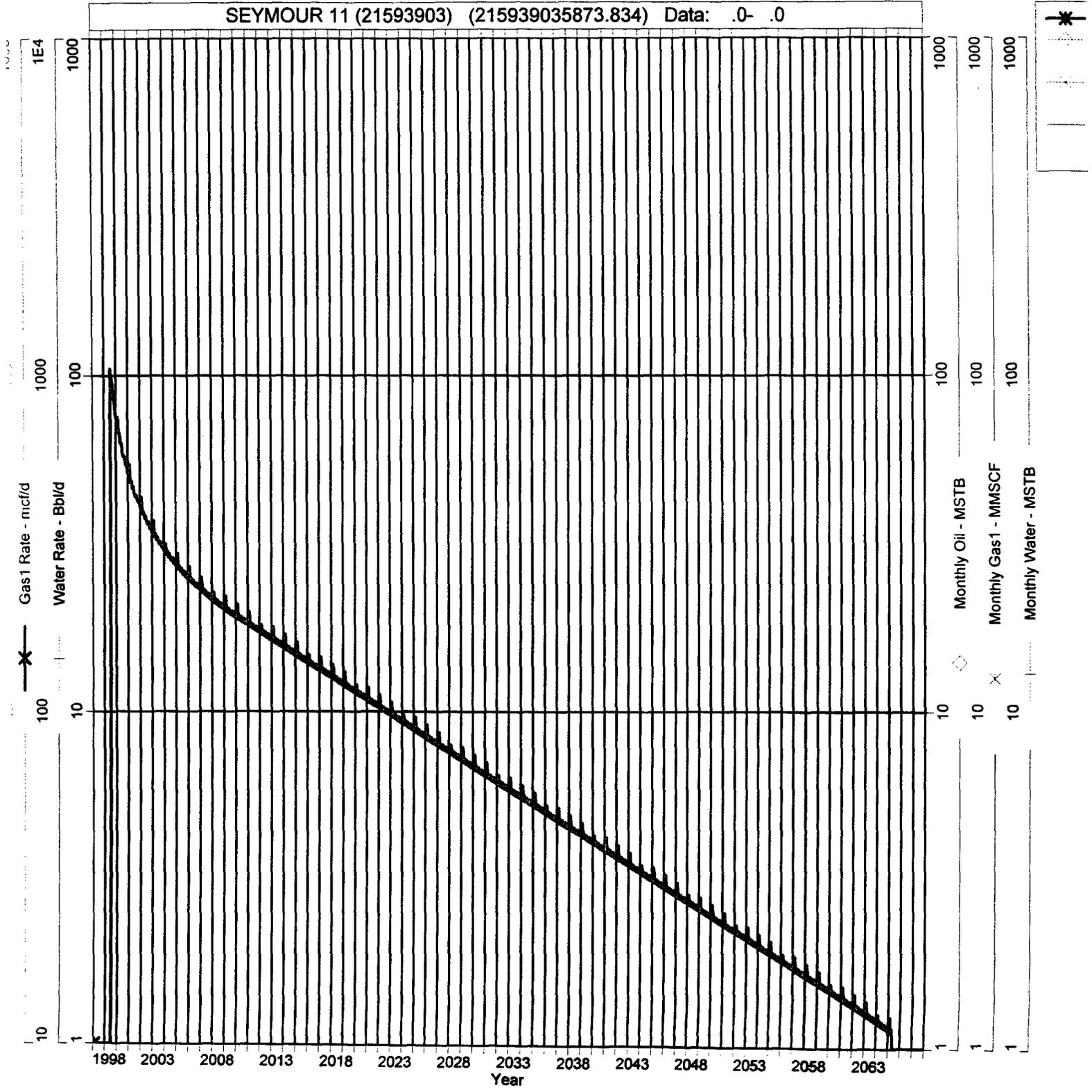
Schumacher #11M  
Expected Production  
Mesaverde Formation

{3B578109-AD72-11D3-A6} Data: Dec.1999-Dec.1999



Schumacher #11M  
 Expected Production  
 Dakota Formation

SEYMOUR 11 (21593903) (215939035873.834) Data: .0- .0



**Schumacher #11M**  
 Bottom Hole Pressures  
 Flowing and Static BHP  
 Cullender and Smith Method  
 Version 1.0 3/13/94

| <b>Mesaverde</b>               |                                     | <b>Dakota</b>                  |                                     |
|--------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| <b><u>MV-Current</u></b>       |                                     | <b><u>DK-Current</u></b>       |                                     |
| GAS GRAVITY                    | <u>0.685</u>                        | GAS GRAVITY                    | <u>0.636</u>                        |
| COND. OR MISC. (C/M)           | <u>C</u>                            | COND. OR MISC. (C/M)           | <u>C</u>                            |
| %N2                            | <u>0.21</u>                         | %N2                            | <u>0.16</u>                         |
| %CO2                           | <u>0.74</u>                         | %CO2                           | <u>1.96</u>                         |
| %H2S                           | <u>0</u>                            | %H2S                           | <u>0</u>                            |
| DIAMETER (IN)                  | <u>2.375</u>                        | DIAMETER (IN)                  | <u>2.375</u>                        |
| DEPTH (FT)                     | <u>5160</u>                         | DEPTH (FT)                     | <u>7277</u>                         |
| SURFACE TEMPERATURE (DEG F)    | <u>60</u>                           | SURFACE TEMPERATURE (DEG F)    | <u>60</u>                           |
| BOTTOMHOLE TEMPERATURE (DEG F) | <u>137</u>                          | BOTTOMHOLE TEMPERATURE (DEG F) | <u>198</u>                          |
| FLOWRATE (MCFPD)               | <u>0</u>                            | FLOWRATE (MCFPD)               | <u>0</u>                            |
| SURFACE PRESSURE (PSIA)        | <u>369</u>                          | SURFACE PRESSURE (PSIA)        | <u>758</u>                          |
| BOTTOMHOLE PRESSURE (PSIA)     | <input type="text" value="418.8"/>  | BOTTOMHOLE PRESSURE (PSIA)     | <input type="text" value="892.2"/>  |
| <b><u>MV-Original</u></b>      |                                     | <b><u>DK-Original</u></b>      |                                     |
| GAS GRAVITY                    | <u>0.685</u>                        | GAS GRAVITY                    | <u>0.636</u>                        |
| COND. OR MISC. (C/M)           | <u>C</u>                            | COND. OR MISC. (C/M)           | <u>C</u>                            |
| %N2                            | <u>0.21</u>                         | %N2                            | <u>0.16</u>                         |
| %CO2                           | <u>0.74</u>                         | %CO2                           | <u>1.96</u>                         |
| %H2S                           | <u>0</u>                            | %H2S                           | <u>0</u>                            |
| DIAMETER (IN)                  | <u>2.375</u>                        | DIAMETER (IN)                  | <u>2.375</u>                        |
| DEPTH (FT)                     | <u>5160</u>                         | DEPTH (FT)                     | <u>7277</u>                         |
| SURFACE TEMPERATURE (DEG F)    | <u>60</u>                           | SURFACE TEMPERATURE (DEG F)    | <u>60</u>                           |
| BOTTOMHOLE TEMPERATURE (DEG F) | <u>137</u>                          | BOTTOMHOLE TEMPERATURE (DEG F) | <u>198</u>                          |
| FLOWRATE (MCFPD)               | <u>0</u>                            | FLOWRATE (MCFPD)               | <u>0</u>                            |
| SURFACE PRESSURE (PSIA)        | <u>1041</u>                         | SURFACE PRESSURE (PSIA)        | <u>2042</u>                         |
| BOTTOMHOLE PRESSURE (PSIA)     | <input type="text" value="1200.3"/> | BOTTOMHOLE PRESSURE (PSIA)     | <input type="text" value="2442.3"/> |

Schumacher #11M

Mesaverde Offset

| <u>Well Name</u> | <u>Date</u> | <u>Pressure</u> |
|------------------|-------------|-----------------|
| SCHUMACHER 10    | 11/11/53    | 1,041           |
| SCHUMACHER 10    | 03/03/54    | 936             |
| SCHUMACHER 10    | 04/24/54    | 885             |
| SCHUMACHER 10    | 06/15/55    | 848             |
| SCHUMACHER 10    | 04/23/56    | 746             |
| SCHUMACHER 10    | 07/22/57    | 749             |
| SCHUMACHER 10    | 04/27/58    | 728             |
| SCHUMACHER 10    | 03/22/59    | 675             |
| SCHUMACHER 10    | 03/22/60    | 653             |
| SCHUMACHER 10    | 03/21/61    | 639             |
| SCHUMACHER 10    | 04/09/62    | 720             |
| SCHUMACHER 10    | 04/05/63    | 701             |
| SCHUMACHER 10    | 04/06/64    | 721             |
| SCHUMACHER 10    | 10/18/65    | 741             |
| SCHUMACHER 10    | 03/11/66    | 571             |
| SCHUMACHER 10    | 03/22/67    | 660             |
| SCHUMACHER 10    | 08/15/68    | 642             |
| SCHUMACHER 10    | 06/02/70    | 664             |
| SCHUMACHER 10    | 03/06/74    | 650             |
| SCHUMACHER 10    | 05/22/72    | 596             |
| SCHUMACHER 10    | 04/30/74    | 678             |
| SCHUMACHER 10    | 09/08/76    | 642             |
| SCHUMACHER 10    | 05/01/78    | 591             |
| SCHUMACHER 10    | 06/16/80    | 520             |
| SCHUMACHER 10    | 12/17/85    | 551             |
| SCHUMACHER 10    | 04/17/89    | 494             |
| SCHUMACHER 10    | 01/08/91    | 513             |
| SCHUMACHER 10    | 05/20/91    | 501             |
| SCHUMACHER 10    | 04/15/93    | 357             |
| SCHUMACHER 10    | 04/20/93    | 369             |

Schumacher #11M

Dakota Offset

| <u>Well Name</u> | <u>Date</u> | <u>Pressure</u> |
|------------------|-------------|-----------------|
| SCHUMACHER 11    | 04/05/61    | 2,042           |
| SCHUMACHER 11    | 04/25/61    | 2,039           |
| SCHUMACHER 11    | 02/12/62    | 1,397           |
| SCHUMACHER 11    | 04/09/62    | 1,269           |
| SCHUMACHER 11    | 04/12/63    | 1,086           |
| SCHUMACHER 11    | 04/06/64    | 879             |
| SCHUMACHER 11    | 04/01/65    | 776             |
| SCHUMACHER 11    | 03/11/66    | 814             |
| SCHUMACHER 11    | 03/22/67    | 798             |
| SCHUMACHER 11    | 03/08/68    | 744             |
| SCHUMACHER 11    | 06/02/70    | 751             |
| SCHUMACHER 11    | 03/26/71    | 707             |
| SCHUMACHER 11    | 05/22/72    | 659             |
| SCHUMACHER 11    | 04/29/75    | 627             |
| SCHUMACHER 11    | 09/02/88    | 850             |
| SCHUMACHER 11    | 06/10/92    | 1,010           |
| SCHUMACHER 11    | 09/27/93    | 758             |

Schumacher #11M  
 Mesaverde / Dakota  
 30N - 10W - 18

