|  | and the second sec | DH  | C 4/16/97   |  |  |  |
|--|--|---|---|--|--|--|
| <u>DISTRICT I.</u><br>P.O. BOX 1980, Hobbs, NM (1) (1) 2987 (1997)   | State of Nev<br>Energy, Minerals and Natura  |   | Form C-107-A<br>New 3-12-96                                     |  |  |  |
| DISTRICT II  | OIL CONSERVA   |   | APPROVAL PROCESS:<br>X Administrative Hearing                   |  |  |  |
| 811 South First St., <del>Artesis, NM-88210-2835<br/>DISTRICT III CONCERVATOR DIVIS</del><br>1000 Rio Brezos Rd, Aztec, NM 87410-1693  | APPLICATION FOR DOW  |   |   |  |  |  |
| Phillips Petroleum   | Company 5  | 525 Hwy. 64, Farmin   | ngton, NM 87401   |  |  |  |
| Operator<br>San Juan 30-5 Unit<br>Lease  | #49 M,<br>Well No. Unit Ltr.   | Sec. 9, T30N, R5W   | County  |  |  |  |
| OGRID NO. 017654 Property Code   | <u>. 009258</u> арі no. <u>30</u>  | -039-21830  | X_, State, (and/or) Fee   |  |  |  |
| The following facts are submitted in support of downhole commingling:  | Upper<br>Zone  | Intermediate<br>Zone  | Lower<br>Zone   |  |  |  |
| 1. Pool Name and<br>Pool Code  | 72319<br>Blanco Mesaverde  |   | 71599<br>Basin Dakota   |  |  |  |
| 2. Top and Bottom of<br>Pay Section (Perforations)   | 4005'<br>5696'   |   | 7682'<br>7704'  |  |  |  |
| 3. Type of production<br>(Oil or Gas)  | Gas  |   | Gas   |  |  |  |
| 4. Method of Production<br>(Flowing or Artificial Lift)  | Flowing  |   | Flowing   |  |  |  |
| 5. Bottomhole Pressure<br>Oil Zones - Artificial Lift:<br>Estimated Current  | a. <sup>(Current)</sup><br>1030 psi (est.)   | a.  | <sup>a.</sup> 939 psig<br>(24 hr. SI)                           |  |  |  |
| Estimated Current<br>Gas & Oil - Flowing:<br>Measured Current<br>All Gas Zones:<br>Estimated Or Measured Original  | <sub>b.</sub> <sup>(Original)</sup><br>1294 psi (est.)   | b.  | <sup>ь.</sup><br>3412 psi (est).                                |  |  |  |
| 6. Oil Gravity ( <sup>°</sup> API) or<br>Gas BTU Content   | 1030BTU/cu.ft.   |   | 1000 BTU/cu. ft.  |  |  |  |
| 7. Producing or Shut-In?   |  |   | Producing   |  |  |  |
| Production Marginal? (yes or no)   | Yes  |   | Yes   |  |  |  |
| * If Shut-In, give date and oil/gas/<br>water rates of last production<br>Note: For new zones with no production history,<br>applicant shall be required to attach production<br>estimates and supporting data   | Date:<br>Rates:  | Date:<br>Rates:   | Date:<br>Rates:   |  |  |  |
| <ul> <li>If Producing, give date andoil/gas/<br/>water rates of recent test<br/>(within 60 days)</li> </ul>  | Date: Estimate<br>Rates:420 mcfd   | Date:<br>Rates:   | Date: Jan, 1997<br>Rates: 67 mcfd<br>0 bwpd                     |  |  |  |
| 8. Fixed Percentage Allocation<br>Formula -% for each zone   | Oil: Gas: %  | Oil: Gas: %   | Oil: Gas:<br>% %  |  |  |  |
| 9. If allocation formula is based u submit attachments with sup  | upon something other than curr<br>porting data and/or explaining r   | rent or past production, or is ba<br>nethod and providing rate proje                                  | ased upon some other method,<br>actions or other required data. |  |  |  |
| <ol> <li>Are all working, overriding, ar<br/>If not, have all working, overr<br/>Have all offset operators been</li> </ol>   | nd royalty interests identical in<br>iding, and royalty interests bee<br>given written notice of the prop  | all commingled zones?<br>In notified by certified mail?<br>posed downhole commingling?                | Yes X No<br>X Yes No<br>X Yes No                                |  |  |  |
| 11. Will cross-flow occur? X Y<br>flowed production be recovered   | YesNo If yes, are fluids of<br>ed, and will the allocation form  | ula be reliable. A Yes l  | No (If No, attach explanation)                                  |  |  |  |
| 12. Are all produced fluids from all commingled zones compatible with each other? X Yes No (see attached)<br>13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation) |  |   |   |  |  |  |
| 14. If this well is on, or communitized with state or federal lands, either the Commissioner of Bublic Londo or the  |  |   |   |  |  |  |
| United States Bureau of Land Management has been notified in writing of this application. X Yes No<br>15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) R-10771                                  |  |   |   |  |  |  |
| 16. ATTACHMENTS:<br>* C-102 for each zon<br>* Production curve fo<br>* For zones with no p<br>* Data to support allo<br>* Notification list of a   | te to be commingled showing it<br>or each zone for at least one ye<br>production history, estimated p<br>preation method or formula  | ts spacing unit and acreage dea<br>ar. (If not available, attach ex<br>roduction rates and supporting | dication.<br>planation.)<br>data.                               |  |  |  |
| I hereby certify that the informatic   | on above is true and complete t  | to the best of my knowledge a   | nd belief.  |  |  |  |
| SIGNATURE Seen C   | Hella  | Staff Reservoi<br>TITLE <u>Engineer</u>   | r   |  |  |  |
| TYPE OR PRINT NAME   | n C. Helton  | TELEPHONE NO. ( _   | 505 ) 599-3455  |  |  |  |

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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

#### State of New Mexico Energy, Minerals & Natural Resources Department

## OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

| [                               | API Numb                          | cr       | T                          | <sup>3</sup> Pool Coo | le        | <sup>3</sup> Pool Name |                  |                    |                |             |  |
|---------------------------------|-----------------------------------|----------|----------------------------|-----------------------|-----------|------------------------|------------------|--------------------|----------------|-------------|--|
| 30-039                          | -039-21830 72319 Blanco Mesaverde |          |                            | 72319 F               |           |                        | Blanco Mesaverde |                    |                |             |  |
| <sup>4</sup> Property<br>009258 | Code                              |          |                            |                       |           |                        |                  | Well Number<br>#49 |                |             |  |
| 'OGRID                          | No                                |          | <sup>4</sup> Operator Name |                       |           |                        |                  |                    |                | * Elevation |  |
| 017654                          |                                   | Dhil     | ling                       | Petrol                | leum C    |                        |                  |                    |                | 6           | 318                                      |
| 01/034                          |                                   |          | 1103                       |                       |           |                        | Location         |                    |                |             |  |
|                                 | Section                           | Township | Barret                     | Lot Idn               | Feet from |                        | North/South line | Feet from the      | East/Wes       |             | County                                   |
| UL or lot no.                   |                                   | 1 1      | Range                      |                       | 815       | uc                     | South            | 1005               | Wes            |             | Rio Arriba                               |
| M                               | 9                                 | 30N      | 5W                         | Lom Uol               | <u> </u>  |                        | f Different Fro  | l                  | wes            | د<br>       | INIO AILIN                               |
|                                 | C                                 | Truckin  |                            | Lot Ida               | Feet from |                        | North/South line | Feet from the      | East/Wes       | 1 15        | County                                   |
| UL or lot no.<br>M              | Section                           | Township | Range                      | 1.00 102              | rect from | 100                    | North/South ane  | reet from the      | Eastries       |             | County                                   |
| 12 Dedicated Acr                | val <sup>13</sup> Ioint           |          | onsolidatio                | n Code U              | Drder No. |                        | L                | [                  |                |             |  |
| 320                             |                                   | y l      | IJ                         |                       |           |                        |                  |                    |                |             |  |
| <b></b>                         |                                   |          | <u>~</u>                   | D TO TH               | IS COMPI  | ETI                    | ON UNTIL ALL     | INTERESTS H        | AVE BEI        | EN CO       | NSOLIDATED                               |
| NO NELO                         |                                   |          |                            |                       |           |                        | EEN APPROVED     |                    |                |             |  |
| 16                              | 1                                 |          |                            | T                     |           | T                      |                  | 17 OPER            | ATOR           | CERT        | <b><i>TIFICATION</i></b>                 |
|                                 |                                   |          |                            |                       |           |                        |                  |                    |                |             | contained herein is                      |
| 1                               |                                   |          |                            | 1                     |           |                        | ×                | true and com       | plete to the b | est of my   | knowledge and belief                     |
|                                 | U                                 | <b>1</b> |                            |                       |           |                        |                  |                    |                |             |  |
|                                 | 1                                 | l        |                            | X                     |           |                        |                  |                    |                |             | ,11                                      |
|                                 |                                   | 7        |                            |                       |           |                        |                  | 6                  |                | -H          | The second                               |
|                                 |                                   | l        | •                          | 1                     |           |                        |                  | Signature          | nc             | 168         |  |
|                                 | ļ                                 |          |                            | X                     |           |                        |                  | Sean C             | Hel            | ton         |  |
| · .                             |                                   | SECTION  | 9                          | 1                     |           |                        |                  | Printed Nam        |                | voir        | Engineer                                 |
|                                 |                                   | •        |                            | 1                     |           |                        |                  | Tille              | Resel          | <u></u>     | Engineer                                 |
|                                 | 9                                 |          |                            | 1                     |           |                        |                  | March              | 25, l          | 997         |  |
|                                 |                                   | -        | •                          |                       |           |                        |                  | Date               |                |             |  |
|                                 |                                   |          | t -                        | 1                     |           |                        |                  | <sup>18</sup> SURV | EYOR           | CERT        | IFICATION                                |
|                                 |                                   |          |                            |                       |           |                        |                  | 18                 |                |             | n shown on this plat                     |
|                                 | 1                                 |          |                            |                       |           |                        |                  |                    |                |             | l surveys made by<br>at the same is true |
|                                 | 1                                 |          |                            |                       |           |                        |                  | and correct to     |                | -           | a une sume is mae                        |
|                                 | ٦                                 | ¥ .      |                            | 1                     |           |                        |                  |                    |                |             |  |
| ?                               |                                   |          |                            |                       |           |                        |                  | Date of Surve      |                |             |  |
| U                               | ·                                 |          |                            | 1                     |           |                        | ·····            | Signature and      | Scal of Profe  | ssional Su  | urveyer:                                 |
| 10051                           |                                   |          |                            | 1                     |           |                        |                  | See D              | akota          | C = 10      | 12                                       |
|                                 | 7 1                               | 1        |                            | 1                     |           |                        |                  |                    | 2-27·          |             |  |
| 1                               | 15-                               | •        | -                          |                       |           |                        |                  |                    | -              |             |  |
| 7                               | 81                                |          |                            |                       |           |                        |                  |                    |                |             |  |
|                                 |                                   |          | 1                          |                       |           |                        |                  | Certificate Nur    | nber           |             |  |

MEXICO OIL CONSERVATION COMMISS

Form C-102 Supersedes C-128 Effective 1-1-65

| Construct       Lease       Main 1200       San Juan 30-5       Main 1200       149         MARCHINESS PIPELINE CORPORATION       San Juan 30-5       County RIO ARRIBA       149         Artual resorts location at only       90 NORTH       SWEST       County RIO ARRIBA       1200       100         Artual resorts Location at only       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         Construct at only       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         Construct at only       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         Construct at one       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         10 attinue th and and participation of the south resolution of the south reso  | All distances must be from the outer boundaries of the Section. |  |                                 |              |               |  |  |
|---|---|--|---------------------------------|--------------|---------------|--|--|
| Unit Latter       Fordure       Fordure       County       RIO ARRIHA         Mini Latter       30 NORTH       5 WEST       RIO ARRIHA         B15       test trap the       SOUTH       1005       foot trap.       WEST         Construction       Description       Basin Dakota       Delimited Accessed       320       construction         Construction       Description       Basin Dakota       Delimited Accessed       320       construction         Construction       Description       Basin Dakota       Delimited Accessed       320       construction         1. Outline the acruage dedicated to the subject well by colored pencil or hachure marks on the plat below.       1.       Interest than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interests and royalty).         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners leen consolidated.       User reverse side this form in accessary). SULA, SULA SULA SULA SULA SULA SULA SULA SULA  |   |  |                                 |              |               |  |  |
| M     9     30 NORTH     5 WEST     RIO ARRIDA       Anual Former Landing of Entrance     SOUTH     Image and     1005     tool from the WEST       Central Land     Perturned Formation     Dakota     Basin Dakota     Defended According to an operation of the subject well by colored pencil or bachure marks on the plat holow.       2. If more than one lease is dedicated to the subject well in colored pencil or bachure marks on the plat holow.       3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated.       (If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated.       (Use reverse side this form if necessary).       SULA, SULA SEC. 9, T300 BSU       No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, etc?)       No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has here approved by the Commission.       SF=078997       100.5'       0       100.5'       0       100.5'       0       100.5'       0       100.5'   |   |  | TION                            |              |               |  | 49   |
| B15       test tent for       SOUTH       1005       test from the       WEST         Cound (red Elder.)       Pretoring Personne       1001       Deltaded Accessed       20       10         B351       Dakota       Basin Dakota       20       10   | М   | 9 30   | NORTH                           |              |               | O ARRINA   |  |
| Consult provide the sense presence is in the subject well by colored pencil or hachure marks on the plat below.       20 <t< td=""><td>015</td><td>COUTU</td><td>line and</td><td>1005</td><td>at from the</td><td>WEST</td><td>11</td></t<>  | 015   | COUTU  | line and                        | 1005         | at from the   | WEST   | 11   |
| <ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachart marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?</li> <li>Yes No If answer is "yes?" type of consolidation</li> <li>If answer is "no?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary). SU/A, SWA Sec. 9, T30N BSW.</li> <li>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, unitization, some and and unit, eliminating such interests, has been approved by the Commission.</li> <li>CERNIFICANOM</li> <li>I hareby certify that the information de to the well.</li> <li>O.B. Whitenburg</li> <li>Positor</li> <li>Profitors</li> <li>Profitors</li> <li>Profitors</li> <li>Profitors</li> <li>Profitor de the well base of an anon-store due to the test of a monower much by the comparison of the row of the plate weighted to the comparison.</li> <li>Profitors</li> <li>Profit or the test of an anone the plat weight be into the comparison of the row of the plat weighted to the comparison of the row of of the ro</li></ol> |   |  |                                 |              |               | Deli   |  |
| <ul> <li>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interest and royalty).</li> <li>3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? <ul> <li>Yes</li> <li>No</li> <li>If answer is "ho?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if accessary). SU/A, Su, Su/A, Su/A, Su, Su/A, Su, Su/A, Su, Su/A, Su, Su, Su, Su, Su, Su, Su, Su, Su, Su</li></ul></li></ul>   | 6318  | Dakota   |                                 | Basin Dakota |               |  | 320 Acres  |
| dated by communitization, unitization, force-pooling, ctc?            Yes         No         If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.)_SU/4, SU/4, SU/4, Sec., 9, TSON RSU          No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitratio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Connai sion.             CERNIFICATION   | 2. If more than a   | one lease is dedicated                                   | -                               |              |               | -  |  |
| this form if necessary.)_SW/4, SW/4 Sec. 9, T30N R5W<br>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizatio<br>forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.<br>CERTIFICATION<br>I hereby certify that the information con-<br>tained herein is true and complete to fined herein is play as plotted from the complete fined and prover to the best of m<br>hereing agreest to the best of m<br>hereing agreest to the best of m<br>hereing agreest bound.<br>1005' O   | dated by comm   | nunitization, unitization                                | , force-poolin                  | g. etc?      | have the into | crests of all  | owners been consoli-   |
| <ul> <li>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</li> <li>O.B. Whitenburg</li> <li>Position:</li> <li>Production &amp; Drilling Englished Company</li> <li>Northwest Pipeline Corp.</li> <li>Date</li> <li>March 7, 1975</li> <li>I hereby certify that the information contained by net of the best of my knowledge and belief.</li> <li>SF=078997</li> <li>SF=078997</li> <li>Date</li> <li>1005' O.</li> <li>Part of the best of my knowledge and belief.</li> <li>Date</li> <li>Date</li> <li>Date of the best of my knowledge and belief.</li> <li>Date of the best of my knowledge and belief.</li> <li>Date of the best of my knowledge and belief.</li> <li>Date of the best of my knowledge and by net of the best of my knowledge and by net of the best of my knowledge and by net of the best of my knowledge and belief.</li> </ul>  | this form if new<br>No allowable w<br>forced-pooling,           | cessary.) <u>_SW/4,_SW/</u><br>vill be assigned to the v | 4 Sec. 9, 1<br>well until all i | T30N R5W     | consolidated  | (by communi  | tization, unitization,   |
| Jaines PS: Leese  |   |  |                                 |              |               | I hereby certify<br>toined herein is<br>best of my know<br>OBUI<br>OB. Whiter<br>Position<br>Production<br>Company<br>Northwest<br>Date<br>I hereby certif<br>shown on this p<br>Hores of actual<br>under my superv<br>to the pind ep<br>know large and to<br>ate Surveyed<br>. 27 Fe<br>egistered Proff<br>I for Los i curt | that the information con-<br>strue and complete to the<br>viedge and belief. |

## SAN JUAN 30-5 UNIT #49 DAKOTA

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|    | MONTH  | MONTHLY<br>FORECAST<br>(MCF) |
|----|--------|------------------------------|
|    | Mar-97 | 2062                         |
| 1  | Apr-97 | 2061                         |
| 2  | May-97 | 2061                         |
| 3  | Jun-97 | 2061                         |
| 4  | Jul-97 | 2060                         |
| 5  | Aug-97 | 2060                         |
| 6  | Sep-97 | 2060                         |
| 7  | Oct-97 | 2059                         |
| 8  | Nov-97 | 2059                         |
| 9  | Dec-97 | 2059                         |
| 10 | Jan-98 | 2058                         |
| 11 | Feb-98 | 2058                         |
| 12 | Mar-98 | 2058                         |
| 13 | Apr-98 | 2057                         |
| 14 | May-98 | 2057                         |
| 15 | Jun-98 | 2057                         |
| 16 | Jul-98 | 2056                         |
| 17 | Aug-98 | 2056                         |
| 18 | Sep-98 | 2056                         |

PHILLIPS PETROLEUM COMPANY 5525 HWY 64 NBU 3004 FARMINGTON. NEW MEXICO 87401 DATE: MARCH 05, 1997 WELL NAME: SAN JUAN 30-5 # 49 FORMATION: DAKOTA TYPE TEST: STATIC GRADIENT COUNTY: RIO ARRIBA STATE: NEW MEXICO CASING PRESSURE: 760 TUBING PRESSURE: 610 ELEVATION: ΘL TOTAL DEPTH: 7754' PBTD PERFORATIONS: 7682' TO 7704' OIL LEVEL: TUBING SIZE: 2-3/8" TO 7672' WATER LEVEL: 7044 ' CASING SIZE: ΤO TEMPERATURE: PACKER: AMERADA ELEMENT NUMBER: 86184 OTHER: RANGE: 0-3500 WELL STATUS: SHUT IN 24 HOURS INDIVIDUAL WELL DATA SHEET STATIC GRADIENT TRAVERSE

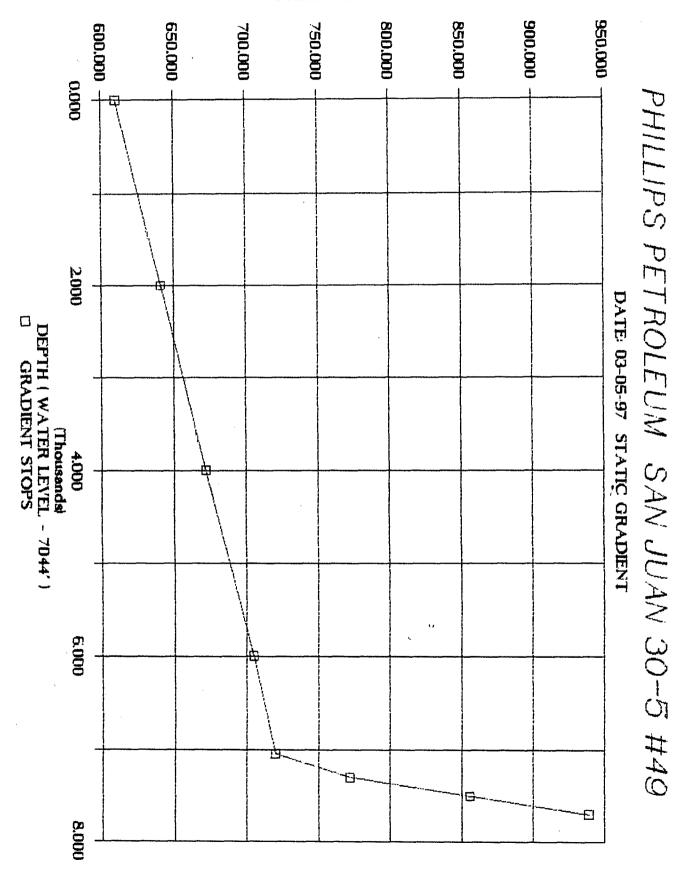
| DEPTH<br>IN FEET | PRESSURE<br>PSIG | GRADIENT<br>PSI/FOOT |
|------------------|------------------|----------------------|
|                  |                  |                      |
| Ō                | 61 O             |                      |
| 2000             | 641              | 0.015                |
| 4000             | 672              | 0.015                |
| 6000             | 705              | 0.016                |
| 7293             | 772              | 0.051                |
| 7493             | 856              | 0.420                |
| 7693             | 939              | 0.415                |

H & H WIRELINE SERVICE INC. P. O. BOX 899 FLORA VISTA. N. MEX. 87415 OPERATOR: CHARLES HUGHES UNIT NO. T-10

e 1

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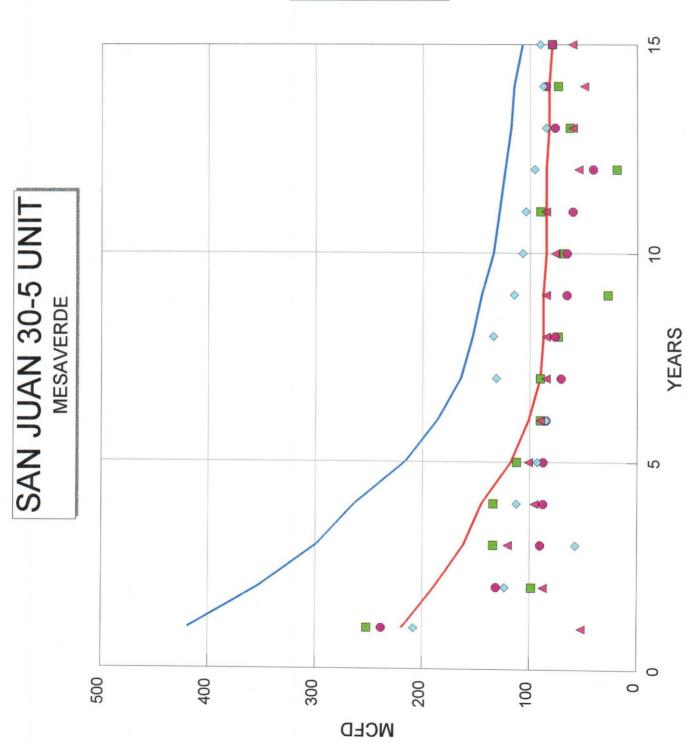


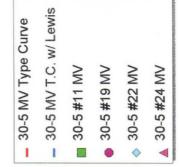
PRESSURE IN PSIG

| Screen: 1 (1-<br>Type: D (T- |                  | h) Well No:<br>;) Field: | NTH<br>650262 SAN<br>000049 | U<br>- JUAN 30<br>SIN | Date: 3/06/97<br>User: #60X<br>5 DAKOTA UNIT |
|------------------------------|------------------|--------------------------|-----------------------------|-----------------------|--|
| ADJ                          | P                | RODUCED                  |                             | DAYS                  | 5 WELL -                                     |
| FLG DATE                     | OIL (BBL)        |                          | ATER (BBL)                  | PROD                  | OP ST CL TY                                  |
| 1996-02                      | 0.00             | 40                       | 0                           | 29.00                 | 29 11 03 2                                   |
| 1996-03                      | 0.00             | 74                       | 0                           | 26.00                 | 26 11 03 2                                   |
| 1996-04                      | 0.00             | 45                       | 0                           | 30.00                 | 30 11 03 2                                   |
| 1996-05                      | 0.00             | 219                      | 0                           | 4.00                  | 4 11 03 2                                    |
| 1996-06                      | 0.00             | 136                      | 0                           | 20.00                 | 20 11 03 2                                   |
| 1996-07                      | 0.00             | 75                       | 0                           | 31.00                 | 31 11 03 2                                   |
| 1996-08                      | 0.00             | 60                       | 0                           | 31.00                 | 31 11 03 2                                   |
| 1996-09                      | 0.00             | 71                       | 0                           | 15.00                 | 15 11 03 2                                   |
| 1996-10                      | 0.00             | 81                       | 0                           | 31.00                 |  |
| 1996-11                      | 0.00             | 74                       | . 0                         | 30.00                 | 30 11 03 2                                   |
| 1996-12                      | 0.00             | 64                       | 0                           | 31.00                 | 31 11 03 2                                   |
| 1997-01                      | 0.00             | 67                       | . 0                         | 31.00                 | 31 11 03 2                                   |
| PA1=ICE PA                   | A2=Exit PF1=Help | PF3=End                  | PF5=INI7                    | TIAL CUM              | PF11=GRAPH                                   |
| Transfer->                   | PF7=Backwa       | rd PF8=Forward           | d PF10=GRA                  | AND MENU              | PF12=LOG GRAPH                               |

,

2 #AM3 03/03/97 18:41 (HINM/188) **MTR** 105 101 001 102 L988601 ZONE-650262076000049 L988601 API-30039218300000 THRU 97/01 1997 112831. MCF GAS BBL WTR Current Cums 1996 + 120. 995 ++ 1994 + 1/92-1/97 LEASE- 650262 : SAN JUAN 30-5 DAKOTA UNIT RESVR- 076 : BASIN WELL - 000049 CUM MCF =376057. : 2092.1 : 5.08 0.00 : 112831. 2117.3 +++ 1993 + INITIAL PROD / MNTH REMAINING LIFE 1992 | AVERAGE ONTIME =0.924 + FINAL PROD / MNTH CUM PRODUCTION + s0L +01 102 105 (MCE/WATH) CAS 0.1 0.0 DOWNTIME FRACT. +





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Exhibit 3.2

# Production Allocation Methodology

- Adding New Zone to Existing Zone Initially Subtraction Method followed by Fixed Allocation Method
  - Subtraction Method (+/- 1st 12 months)
    - Forecast production rate by month for existing zone utilizing established decline curve for zone
    - Subtract forecasted rate from commingled rate to define new zone rate
    - Utilize subtraction method for +/- 12 months until new zone rate stabilizes, then utilize fixed allocation method with current rates
  - Fixed Allocation Method (after Subtraction Method)
    - Utilize forecasted rate from established decline curve for lower zone
    - Calculate upper zone rate by subtracting lower zone rate from commingled rate
    - Lower zone allocation = <u>Lower zone rate</u> Commingled rate
    - Upper zone allocation = (Commingled rate - Lower zone rate) / Commingled rate

#### Attachment

## OCD Form C-107A (3/12/96)

Item No. 12 - additional explanation:

Based on water analysis from the Mesaverde and Dakota zones and discussions with the chemical treating/analysis company the water from these two zones are compatible. Lab analysis of the individual waters from both the Mesaverde and Dakota formations resulted in positive scaling indices for barium sulfate. There was a slight increase in the barium sulfate scaling index of the combined waters relative to the scaling index of the individual waters.

None of the waters, combined or individual, had meaningful scaling tendencies and combined with the fact that typical water production from either of these zones in San Juan 30-5 are 0-1 BWPD and no barium sulfate scale has been detected to date, no negative impacts to the formations are anticipated.