<u>District I</u> 1625 N. French E

<u>District II</u>

1301 W. Grand Avenue, Artesia. NM 88210

bs, NM 88240

District III 1000 Rio Brazos Road, Aztec, NM 87410

## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

Cop Ŋ

**Oil Conservation Division** 

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE X\_Single Well Establish Pre-Approved Pools EXISTING WELLBORE \_X\_Yes \_\_\_No

#### APPLICATION FOR DOWNHOLE COMMINGLING

| Marbob Energy Corpora  | tion / P.O.B          | ox 227, Artesia, NM 88   | 211-0227                   |
|--|-----------------------|--|----------------------------|
| Operator   | Ad                    | dress  |                            |
| D State 24   | Eddy                  |  |                            |
| Lease  | Well No. Unit Letter- | Section-Township-Range   | County                     |
| OGRID No. 014049 Property Co   | de 25375 API No. 30-  | -015-31390 Lease Type:   | Federal State Fee          |
| DATA ELEMENT   | UPPER ZONE            | INTERMEDIATE ZONE  | LOWER ZONE                 |
| Pool Name  | Artesia Qn-GB-SA      |  | Artesia Glorieta/Yeso      |
| Pool Code  | 3230                  |  | 96830                      |
| Top and Bottom of Pay Section<br>(Perforated or Open-Hole Interval)  | 2895-3565' perforate  |  | 4037-4281'perforated       |
| Method of Production<br>(Flowing or Artificial Lift)   | Artificial Lift       | AND RECEIVENT  | Artificial Lift            |
| Bottomhole Pressure<br>(Note: Pressure data will not be required if the bottom   | 50 psi producing      | 12   | 100 psi producing          |
| perforation in the lower zone is within 150% of the<br>depth of the top perforation in the upper zone)                   | внр                   | $\begin{array}{c} RECENCE \\ \Theta \\ $ | ВНР                        |
| Oil Gravity or Gas BTU<br>(Degree API or Gas BTU)  | 36°                   |  | 39°                        |
| Producing, Shut-In or<br>New Zone  | New zone              |  | Producing                  |
| Date and Oil/Gas/Water Rates of  |                       |  |                            |
| Last Production.<br>(Note: For new zones with no production history,<br>applicant shall be required to attach production | Date: N/A             | Date:  | Date: 11/30/02             |
| applicant shall be required to attach production<br>estimates and supporting data.)                                      | Rates:                | Rates:   | Rates: 45 bopd<br>30 mcfpd |
| Fixed Allocation Percentage<br>(Note: If allocation is based upon something other  | Oil Gas               | Oil Gas  | Oil Gas                    |
| than current or past production, supporting data or  |                       | 9/ 9/  | 71.0/ 50.0/                |

#### **ADDITIONAL DATA**

%

%

71 %

52

%

48 %

| Are all working, royalty and overriding royalty interests identical in all commingled zones?<br>If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?  | Yes<br>Yes | X        | No<br>No     |
|--|------------|----------|--------------|
| Are all produced fluids from all commingled zones compatible with each other?  | Yes        | <u>x</u> | No           |
| Will commingling decrease the value of production?   | Yes        |          | No_ <u>x</u> |
| If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? | Yes_X      |          | No           |
| NMOCD Reference Case No. applicable to this well: Administrative Order DHC-2906  |            |          |              |

Attachments:

explanation will be required.)

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.)

29 %

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

### PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

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

| SIGNATURE          | man           | TITLE | Engineer | DATE 20 Jan 03                |  |
|--------------------|---------------|-------|----------|-------------------------------|--|
| TYPE OR PRINT NAME | Brian Collins |       | TELEPHON | E NO. ( <u>505</u> ) 748–3303 |  |



| STRICT I                      |               |              |              |                          | State          | of New         | Mexico              |  | For                                     | n C-102               |
|-------------------------------|---------------|--------------|--------------|--------------------------|----------------|----------------|---------------------|--|---|-----------------------|
| Baz 1980, Hobbs,              | NH 88241-19   | 80           |              | Energy, 1                | Minerals and   | d Natural B    | securces Department | Submit t                                       | Revised February<br>Appropriate Dist    | 10, 1994              |
| STRICT II<br>Drawer DD, Artes | da, NM 88211- | -0719        |              |                          |                |                |                     | State Lease - 4 Copies<br>Fee Lease - 3 Copies |   |                       |
| STRICT III                    |               |              | OIL          | CON                      |                |                | ON DIVIS            | ION  |   | -                     |
| 10 Rio Brazos R               | d., Artec, N  | <b>B7410</b> |              | Santa F                  |                | Box 2<br>Mexic | 088<br>o 87504-2088 |  |   |                       |
| STRICT IV                     |               | 04-2022      |              | Junior I                 | .,             |                |                     |  | AMENDED                                 | REPORT                |
| . Box 2068, Santa             | a Fe, Nai 870 | ~~c000       | WELL LO      | CATION                   | AND            | ACREA          | GE DEDICATI         | ON PLAT  |   |                       |
| API                           | Number        |              |              | Pool Code                |                | 1              | <u>,</u>            | Pool Name                                      |   | ·····                 |
| 30-01                         | 5-313         | 70           | 96           | 830                      | <u> </u>       |                |                     | LORIETTA YES                                   |   | 1                     |
| Property (                    | Code          |              |              |                          |                | stATE          |                     |  | Well Num<br>24                          | ber                   |
| 25375<br>OGRID N              |               |              |              | <u></u>                  |                | rator Nam      |                     | /  | Elevation                               |                       |
| 14049                         |               |              |              | MARBO                    | DB ENE         | RGY CO         | DRPORATION          |  | 3675                                    |                       |
|                               |               |              |              |                          | Surfa          | ce Loca        | ation               |  |   |                       |
| JL or lot No.                 | Section       | Township     | Range        | Lot ldn                  |                | om the         | North/South line    | Feet from the                                  | Bast/West line                          | County                |
| 0                             | 25            | 17 S         | 28 E         |                          | 9              | 90             | SOUTH               | 1650   | EAST                                    | EDDY                  |
|                               |               |              | Bottom       | Hole Lo                  | cation         | If Diffe       | rent From Su        |  |   |                       |
| L or lot No.                  | Section       | Township     | Range        | Lot Idn                  | Feet fr        | om the         | North/South line    | Feet from the                                  | East/West line                          | County                |
|                               |               |              | 1            |                          | rder No.       |                |                     | ]  | · · · · · · · · · · · · · · · · · · ·   | l                     |
| Dedicated Acre                | is Joint (    | or Infill C  | onsolidation | Code 0                   | ruer No.       |                |                     |  |   |                       |
| 40                            |               |              |              |                          | 0010011        |                |                     | RESTS HAVE BE                                  | TEN CONSOLID                            |                       |
| NU ALLA                       | UNADE         | OR A         | NON-STAN     | NDARD UI                 | NIT HAS        | 5 BEEN         | APPROVED BY         | THE DIVISION                                   |   |                       |
|                               |               |              |              |                          |                |                |                     | OPERATO  | OR CERTIFICA                            | TION                  |
|                               |               |              |              |                          |                |                |                     |  | y certify the the in                    |                       |
|                               |               |              |              |                          |                | 1              |                     | contained herei                                | n is true and comp                      | -                     |
|                               |               |              |              |                          |                |                |                     | best of my know                                | vledge and belief.                      |                       |
|                               |               |              |              |                          |                | Ì              |                     | Dahi   | Cash                                    | ~                     |
|                               |               |              |              | _                        |                | 20 212         |                     | Signature                                      | rucu                                    | un                    |
|                               |               | ╞╺╼╴─╴──     |              | +                        | <u> </u>       |                |                     |  | COCKRUM                                 |                       |
|                               |               | 1            |              | 1                        | nii<br>Ce      | · 1<br>신문 영화   | s en                | Printed Nam                                    |   |                       |
|                               |               |              |              | 1 - 1 <sub>12</sub><br>5 | D              | RECEIVE        |                     | Title  | TION ANALYS                             | · T                   |
|                               |               |              |              | 1                        | . OCF          | ) ARTE         | J (S)<br>SIA (S)    | 10/18/   | 00                                      |                       |
|                               |               | 1            |              |                          |                |                |                     | Date   |   |                       |
|                               |               |              |              | I                        |                |                | 26.1<br>213         | SURVEY   | OR CERTIFICA                            | TION                  |
|                               | <u> </u>      | <u> </u>     |              |                          |                |                |                     | I hereby certif                                | y that the well loca                    | tion shown            |
|                               |               | 1            |              |                          |                | 1              |                     |  | vas plotted from fie<br>: made by me or | -                     |
|                               |               |              |              |                          |                | i              |                     | supervison, a                                  | nd that the same i                      | s true and            |
|                               |               | 1            |              |                          |                | 1              |                     | COTTOCE TO E                                   | he best of my beli                      | ay.                   |
|                               |               | 1            |              |                          |                |                |                     | осто   | •                                       |                       |
|                               |               | 1            |              |                          |                |                |                     | Date Survey                                    |   | JLP                   |
|                               |               | ⊢ — — —<br>I |              | +                        | فلك متعدي مسير |                |                     | Professional                                   |   |                       |
|                               |               | 1<br>        |              | E.                       | C              | ₽ <b>-</b>  -  |                     |  | 10.0                                    |                       |
|                               |               | I            |              |                          | 1              | Ţ              |                     | ( mall   |   | 16/00                 |
|                               |               | I            |              | 1                        | ā              |                |                     | W.O.G  | um. 00-11                               | 207                   |
|                               |               | l            |              |                          | Ğ              | 066            |                     | Certificate 1                                  | No. RONALD JEEDS                        | ON, 3239<br>ON, 12641 |
|                               |               |              |              |                          |                |                |                     | "Hitting                                       | OFESSION NG. EDS                        | UIN, 14041            |

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# Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation D State No. 24 (O-25-17S-28E) D State No. 26 (J-25-17S-28E)

As shown on the attached production plots, the estimated per well EUR for the Yeso is 42 MBO/56 MMCF and for the San Andres is 17 MBO/51 MMCF. The proposed zonal allocation is:

| Oil: | Yeso = <u>42 MBO</u><br>42+17  | = | 71% |
|------|--------------------------------|---|-----|
|      | San Andres 171                 | = | 29% |
| Gas: | Yeso = <u>56 MMCF</u><br>56+51 | = | 52% |
|      | San Andres 152                 | = | 48% |

Lease Name: D STATE County, State: EDDY, Unknown Operator: MARBOB ENERGY CORPORATION Field: ARTESIA Reservoir: MULTIPLE Location:

18 wells Yeso Production





Time

Production Rates



Production Rates