| Submit to Appropriate   |  | State of  | of New Mexi   | со                          |  |               | Form C-101   |  |  |
|---|--|---|---|-----------------------------|--|---------------|--|--|--|
| District Office   |  | Energy, Minerals and Natural Resour   |   |                             |  |               | Revised 1-1-89   |  |  |
| State Lease-6 copies  |  |   |   |                             |  |               |  |  |  |
| Fee Lesse-5 copies OIL CONSERVATION DIVISION  |  |   |   |                             |  |               |  |  |  |
|   |  | P.O. B  | ox 2088   |                             |  |               |  |  |  |
| DISTRICT I  |  | Santa Fe, N   | New Mexico  | 8750                        | 4-2088   |               |  |  |  |
| P.O. Box 1980, Hobbs, N   | M 88240  |   | API NO. (assigned by OCD on New Wells)                              |                             |  |               |  |  |  |
| DISTRICT II   |  |   |   |                             | 30.0:  | 25 31         | 33   |  |  |
| P.O. Drawer Dd, Artesia, M<br>DISTRICT III  | NM 88210   |   |   |                             | 5. Indicate Type of Lo   |               |  |  |  |
| 1000 Rio Brazos Rd., Azte   | Nm 87410   |   |   |                             |  | STATE         |  |  |  |
| 1000 110 51205 110., 7210   |  |   |   |                             | 6. State Oil & Gas Lo<br>N/A   | sase No.      |  |  |  |
|   | FOR PERMIT TO DRILL, DEEPE   | EN, OF PLUG BACK  |   |                             |  |               |  |  |  |
| 1a. Type of Work:   |  |   |   |                             | 7. Lease Name or Uni   |               |  |  |  |
| b. Type of Well:  |  |   |   |                             |  | GRAYBURG      | UNIT   |  |  |
| OIL   | GAS OTHER  |   | MULTIPLE  |                             |  |               |  |  |  |
|   |  | ZONE  | ZONE  |                             |  |               |  |  |  |
| 2. Name of Operator   | RON U.S.A. INC.  |   |   |                             | B. Well No.  |               |  |  |  |
| 3. Address of Operator  | non 0.3.A. INC.  |   |   |                             | 9. Pool name or Wild   |               |  |  |  |
| P.O. BO   | ARROWHEAD GRAYBURG   |   |   |                             |  |               |  |  |  |
| 4. Well Location  |  |   |   |                             |  |               |  |  |  |
|   |  |   |   |                             |  |               |  |  |  |
| Unit Letter   | <u>P</u> : <u>330</u>  | Feet From The SOU   | TH  | Line and                    | 1147   | Feet From The |  |  |  |
| Unit Letter<br>Section  | <u>P</u> : <u>330</u><br>36  | Feet From The SOU<br>Township 21S   | TH  | Line and                    | 1147<br>36E  | Feet From The | EAST Line  |  |  |
|   |  |   | TH  | -                           |  | -             |  |  |  |
|   |  |   | ed depth  | Range                       | 36E  | -             |  |  |  |
| Section   | 36   | Township 21S  |   | Range                       | 36E  | -             |  |  |  |
| Section<br>13. Elevation (Show DF,R   | 36<br>IT, GR, etc.)  | Township 21S<br>10. Propos<br>14. Kind & Status Plug Bond   | ed depth<br>4500  | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor   | -             | LEA County<br>12. Rotary or C.T.<br>ROTARY   |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484   | 36<br>IT, GR, etc.)<br>GE  | Township 21S<br>10. Propo<br>14. Kind & Status Plug Bond<br>BLANKE  | eed depth<br>4500   | Range                       | 36E<br>11. Formation<br>GRAYBURG   | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY   |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17   | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT   | eed depth<br>4500   | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor   | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start                                   |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE                                 | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT  | ed depth<br>4500<br>T<br>PROGRAM<br>SETTING DEPTH                   | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor   | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start                                   |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"                      | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23  | ed depth<br>4500<br>ET<br>PROGRAM                                   | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN                                  | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE                                 | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT  | ed depth<br>4500<br>T<br>PROGRAM<br>SETTING DEPTH                   | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT               | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP            |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"                      | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23  | ed depth<br>4500<br>T<br>PROGRAM<br>SETTING DEPTH<br>1350'          | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800        | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"                      | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23  | ed depth<br>4500<br>T<br>PROGRAM<br>SETTING DEPTH<br>1350'          | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800        | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"                      | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23  | ed depth<br>4500<br>T<br>PROGRAM<br>SETTING DEPTH<br>1350'          | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800        | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"<br>7 7/8"            | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"<br>5 1/2"  | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23<br>15.5  | ed depth<br>4500<br>T<br>PROGRAM<br>SETTING DEPTH<br>1350'<br>4500' | Range                       | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800        | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"                      | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"<br>5 1/2"<br>OGRAM: 0-1350' F                                      | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23<br>15.5<br>FRESH WATER SPUD                      | MUD, 9.0 PPC  | Range<br>15. Drig<br>UN<br> | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800<br>900 | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"<br>7 7/8"            | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"<br>5 1/2"<br>OGRAM: 0-1350' F                                      | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23<br>15.5  | MUD, 9.0 PPC  | Range<br>15. Drig<br>UN<br> | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800<br>900 | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"<br>7 7/8"<br>MUD PR( | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"<br>5 1/2"<br>OGRAM: 0-1350' F<br>1350'-450                         | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23<br>15.5<br>FRESH WATER SPUD<br>CO' BRINE WATER A | MUD, 9.0 PPC  | ange                        | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800<br>900 | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |
| Section<br>13. Elevation (Show DF,F<br>3484<br>17<br>SIZE OF HOLE<br>12 1/4"<br>7 7/8"<br>MUD PR( | 36<br>IT, GR, etc.)<br>GE<br>PROPOSED<br>SIZE OF CASING<br>8 5/8"<br>5 1/2"<br>DGRAM: 0-1350' F<br>1350'-450<br>UIPMENT: 2000 PSI WO | Township 21S<br>10. Propose<br>14. Kind & Status Plug Bond<br>BLANKE<br>CASING AND CEMENT<br>WEIGHT PER FOOT<br>23<br>15.5<br>FRESH WATER SPUD<br>CO' BRINE WATER A | MUD, 9.0 PPC<br>ND STARCH SEE ATTACHED                              | ange                        | 36E<br>11. Formation<br>GRAYBURG<br>Contractor<br>KNOWN<br>SACKS OF CEMENT<br>800<br>900 | -<br>NMPM     | LEA County<br>12. Rotary or C.T.<br>ROTARY<br>will start<br>7-10-92<br>EST. TOP<br>SURFACE |  |  |

.

Approved for drilling--NSL must be obtained before well can be produced.

IN ABOVE SPACE DESCRIBE PROPOSED PROG IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUTIVE ZONE AND PROPOSED

NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

| I hereby certify that the information above is true and complete to the best of my knowledge and belief. |             |             |                     |               |  |  |  |  |
|--|-------------|-------------|---------------------|---------------|--|--|--|--|
|  | K. Matthe   | TITLE       | TECHNICAL ASSISTANT | DATE          | 6-25-92                                |  |  |  |
| TYPE OR FRINT NAME   | P.R. N      | IATTHEWS    |                     | TELEPHONE NO. | (915)687-7812                          |  |  |  |
|  |             | i di Singhi |                     |               | ······································ |  |  |  |
| APPROVED BY  |             | TITLE       |                     | DATE          |  |  |  |  |
| CONDITIONS OF APPROV   | AL, IF ANY: |             |                     |               |  |  |  |  |

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

125830

## DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 State of New Mexico Energy, Minerals and Natural Resources Department

# **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

| Operator                 |           |                 |                         |                      | Lease        |                                       |                |               |  | Well No.   |  |
|--------------------------|-----------|-----------------|-------------------------|----------------------|--------------|---------------------------------------|----------------|---------------|--|--|--|
| Chevron U.S.A. Inc.      |           |                 | Arrowhead Grayburg Unit |                      |              |                                       | wei ivo.       | 144           |  |  |  |
| Unit Letter              | Sectio    | 0               | Township                |                      | Range        |                                       |                |               | County                                     |  |  |
| Р                        | 1         | <b>3</b> 6      | 1                       | 21-S                 |              |                                       | 36-E           |               |  | Le   | a  |
| Actual Footage Loca      | ation of  | Well:           | •                       |                      |              |                                       | <u></u>        | NMPM          |  |  |  |
| 330                      | feet fr   | om the          | South                   | line and             |              | 147                                   |                | feet from     | the E                                      | East lin   |  |
| Ground level Elev.       |           |                 | g Formation             |                      | Pool         |                                       |                | iou nom       |  |  | Acreage:                                   |
| 3484.7                   |           | GRAYBURG        | 1                       |                      | ARROW        | HEAD /                                | GB             |               |  | 40   | -  |
| 1. Outline               | e the acr | eage dedicated  | to the subject v        | well by colored per  | cil or hachu | re marks on                           | the plat belo  |               |  | 1  | Acres                                      |
|                          |           |                 |                         | ll, outline each and |              |                                       |                |               | ng interes                                 | t and royalty).  |  |
| 3. If more               | e than or | e lease of diff | erent ownershin         | is dedicated to the  | mail have    | the interest                          |                |               |  |  |  |
| unitizat                 | tion, for | e-pooling, etc. | ?                       |                      |              |                                       |                |               | loated by                                  | communitization  | •  |
|                          | Yes       |                 | No If                   | answer is "yes" typ  | e of consoli | dation                                |                |               |  |  |  |
| If answer<br>this form   | 18 "no"   | list the owners | and tract descri        | ptions which have    | actually bee | a consolidat                          | ed. (Use rev   | verse side of |  | · · · · · · · · · · · · · · · · · · ·  |  |
| this form i<br>No allows |           |                 | the well until a        | il interests have be |              | and they are                          |                |               |  |  |  |
| or until a :             | DOD-SLAD  | dard unit, elim | inating such int        | erest, has been app  | roved by the | Division.                             | BARANGU 22100) | i, unitziton  | , 101 <b>0-0</b> -p                        | ooling, or otherw  | n <b>se)</b>                               |
| [                        |           | <u> </u>        |                         |                      |              |                                       |                |               | OPE  | RATOR CER  | TIFICATION                                 |
|                          |           |                 |                         |                      |              | 1                                     |                |               |  |  | at the information                         |
|                          |           |                 |                         |                      |              | 1                                     |                | c.            | mained                                     | herein in true a   | and complete to the                        |
|                          |           |                 |                         |                      |              | ļ                                     |                | Ы             | est of my                                  | knowledge and b  | elief.                                     |
|                          |           | 1               |                         |                      |              | I                                     |                | -             | gnature                                    |  |  |
|                          |           | !               |                         |                      |              |                                       |                | 1             | DD   | m sel  | - · · · •                                  |
|                          |           |                 |                         | 1                    |              |                                       |                |               | <u> / / K .</u>                            | Matth  | 2012                                       |
| `                        |           |                 |                         |                      |              | 1                                     |                |               | D M  | nc<br>Atthews  |  |
|                          |           |                 |                         | 7                    |              | - <u>†</u>                            |                |               |  |  |  |
|                          |           | 1               |                         |                      |              | i                                     |                | 1 1           | NECUN                                      | ICAL ASSI  | CTANT                                      |
|                          |           | 1               |                         |                      |              | i                                     |                | I             |  | ICAL ASSI  |  |
|                          |           | İ               |                         |                      |              | i                                     |                |               | от при |  | TNC  |
|                          |           | i               |                         |                      |              | i                                     |                |               |  | ON U.S.A.  | INC.                                       |
|                          |           | i               |                         |                      |              |                                       |                | Da            |  | F 02   |  |
|                          |           | i               |                         |                      |              |                                       |                |               | 0-2  | 5-92   |  |
|                          |           | <u> </u>        |                         | ·                    |              | <br>                                  | ·····          |               | SURV                                       | EYOR CER   | TIFICATION                                 |
|                          |           | i               |                         |                      |              | i                                     |                | , I.,         | handha a                                   | and the share share  |  |
|                          |           | i               |                         |                      |              | ł                                     |                |               | nerecy c<br>this pla                       | eriijy inai ine v<br>ai was ploued :   | vell location shown<br>from field notes of |
|                          |           |                 |                         |                      | X            | -                                     |                | 00            | tual no                                    | veys made by   | me or under my                             |
|                          |           | 1               |                         |                      | 4 }          | 1                                     |                | 1 54          | pervison,                                  | and that the   | same is true and                           |
| 1                        |           | !               |                         | L QY                 | /            | 1                                     |                | 1 1           |  | the best of i  | ny knowledge and                           |
| 1                        |           | 7<br>           |                         |                      | /.           | I                                     |                | be            | lief.                                      |  |  |
|                          |           | 8<br>           |                         | NA/                  | -            | و سنو مطر                             |                |               | ate Surve                                  | •  |  |
|                          |           | ;               | ;                       | ᢟ╧ᡔ╱──               |              |                                       |                |               |  | 0, 1992  |  |
| 1                        |           | 1               | ment                    |                      |              |                                       |                | Si            | ignature d                                 | k Seal of the seal | Children .                                 |
|                          |           |                 | an .                    | X                    |              |                                       |                |               |  | L JUIVE)(OF  | and the                                    |
|                          |           |                 | y /                     |                      |              |                                       |                |               |  | States and   |  |
|                          |           | , V .           |                         | 1                    |              |                                       |                |               |  | 5 / 1 N.   |  |
|                          |           | DP-             |                         | 1                    |              |                                       | 1147'          |               | W.   | A) . 2   |  |
| 1                        |           | 1               | 2                       | 1                    |              | <u>io</u>                             |                |               | UM   | 9X & S - U   | ridon                                      |
| L                        |           | J               |                         |                      |              | к <u>,</u>                            |                |               | enficate                                   |  |  |
|                          |           |                 |                         | ·                    |              |                                       |                |               | /  | - RONALD - L   | EIDSON, 3239                               |
| 330 660 99               | 90 13     | 20 1650 1       | 980 2310 20             | 540 2000             | 1500         | 1000                                  | 500            | 0 92          | 2-11-0                                     | )7 <b>76</b>   |  |
|                          |           |                 |                         |                      |              | · · · · · · · · · · · · · · · · · · · |                | L             |  |  |  |

## CHEVRONDRILLING REFERENCE SERIES VOLUME ELEVEN WELL CONTROL AND BLOWOUT PREVENTION

## D. CLASS II-B BLOWOUT PREVENTER STACK:



The Class II-B preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a drilling spool, and a single blind ram preventer on bottom. In an alternate configuration, a single pipe ram preventer may be substituted for the annular preventer. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". An emergency kill line may be installed on the wellhead. As the maximum anticipated surface pressure of this stack is less than 2000 psi, screwed connections may be used. All components must be of steel construction. The Class II-B blowout preventer stack is shown to the left in Figure 11J.3.

## CHEVRON DRILLING REFERENCE SERIES VOLUME ELEVEN WELL CONTROL AND BLOWOUT PREVENTION

#### C. CLASS II CHOKE MANIFOLD

The Class II choke manifold is suitable for all Class Ii workovers and drilling operations. The Class II choke manifold is shown below in Figure 11J.7. Specific design features of the Class II choke manifold include:

1. The manifold is attached to the tubing/casing head when a Class II-A preventer stack is use. This hook-up is only recommended for Class II workover operations.

2. The manifold is attached to a drilling spool or top ram preventer side outlets when a Class II-B preventer stack is in use.

3. The minimun internal diameter is 2" (nominal) for outlets, flanges, valves and es.

4. Includes two steel gate valves in the choke line at the wellhead/drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).

5. Includes one manually adjustable choke which is installed on the side of the manifold cross. Steel isolation gate valves are installed between the choke and the cross, and downstream of the choke.

6. Includes one bleed line installed on the side of the manifold cross which is isolated by a steel gate valve.

7. Includes a pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.

8. Screwed connections may be used in lieu of flanges or clamps.

