| DISTRICT II<br>P.O. Box Drawer DD, Artesia, NM 88211-0719<br>DISTRICT III<br>1000 Rio Brazos Rd., Aztec, NM 87410<br>DISTRICT IV<br>P.O. Box 2088, Santa Fe, NM 87504-2088 |   |                                     |                       |  |                          |   | P.C<br>Fe, Ne                          | als and Natural Resources Department Revised February 10 |  |                                   |                                      |                  | ructions on back<br>te District Office<br>.ease - 6 Copies<br>.ease - 5 Copies<br>DED REPORT |
|--|---|-------------------------------------|-----------------------|--|--------------------------|---|--|--|--|-----------------------------------|--------------------------------------|------------------|--|
|  |   |                                     | -                     | erator Name                            |                          | ddress                                    |  |  |  |                                   |                                      |                  | ID Number  |
|  |   |                                     |                       | TION INC.                              |                          |   |  |  |  |                                   |                                      | 3<br>02          | 2351   |
| F.O. Box 31  | 09, Midland   |                                     | 15 / 9/02             |  |                          |   |  |  |  |                                   | 30-                                  |                  | -33722   |
| 4 F  | roperty Code<br>11122   | 8                                   |                       |  |                          | c   |  | operty Na<br>L VACU                                      | ime<br>UM UNIT                                   |                                   |                                      | 6 W              | /eli No.<br>175  |
|  |   |                                     |                       |  |                          | 7 5                                       | Surface                                | e Local  | lion   | <u>.</u>                          |                                      | <u> </u>         |  |
| UI or lot no.  | Section   |                                     | wnship                | Range                                  | 12                       | ldn Fee                                   | et From 1                              | The N  | orth/South Line                                  | Feet From The                     | East/We                              | st Line          | County   |
| L  | 31  | 1                                   | 7-S                   | 35-E                                   | (2                       |   | 1617                                   |  | SOUTH  | 1107                              | WES                                  | ST               | LEA  |
| UI or lot no.  | Section   | <b>T</b>                            | mohir                 | Propos                                 |                          | ottom Ho                                  | le Loca                                |  | Different Fro                                    | m Surface                         |                                      |                  |  |
| L L  | i i i i i i i i i i i i i i i i i i i                                   |                                     | Lot.                  | ian i rea                              | et From 1<br>1930        | ne N                                      | lorth/South Line<br>SOUTH              | Feet From The<br>1228                                    | East/We  |                                   | County<br>LEA                        |                  |  |
|  | VAC   |                                     | Proposed<br>GRAYBU    | Pool 1<br>RG SAN AN                    | DRES                     | I   |  | <u> </u>   |  | <sup>10</sup> Proposed P          |                                      |                  |  |
| · ·  |   |                                     |                       |  |                          |   |  |  | <u>-</u>   |                                   |                                      |                  |  |
| <sup>11</sup> Work   | : Type Code<br>N  |                                     | 12                    | WellType C                             |                          |   | Rotary or<br>ROTARY                    | C.T.   | r. <sup>14</sup> Lease Type Code<br>S            |                                   | <sup>15</sup> Ground Level Elevation |                  |  |
| <sup>16</sup> Multi  | iple  |                                     | 17                    | Proposed D                             |                          |   |  |  |  |                                   | ractor 20                            |                  | Date   |
| N  | lo<br>  |                                     |                       | 4850'                                  |                          | GRA                                       | YBURG/                                 | G/ S A NABORS  |  |                                   | 12/20/96                             |                  |  |
|  |   | <b>-</b>                            |                       |  | <sup>21</sup> Pro        | posed Ca                                  | asing a                                | and Ce   | ment Program                                     | า                                 |                                      |                  |  |
| SIZE OF  | HOLE  | • · · · · ·                         | SIZE OF (             | CASING                                 |                          | EIGHT PER F                               | оот                                    | SETTING DELTIT SACKS C                                   |  |                                   | DF CEMENT EST. TOP                   |                  |  |
| 7 7/8  |   | 8 5/1<br>5 1/:                      |                       | i <u></u>                              | 24#                      |   |  | 1550'  | 4850'  |                                   | 550 SACKS                            |                  | ACE  |
|  |   |                                     |                       |  | 10.0#                    |   |  | 4050   |  | 900 SACKS                         |                                      | SURFA            |  |
|  |   |                                     |                       |  |                          | Pe  |  |  | Permit E   | xpires 1 Ye<br>Unless Dril        | <del>ar From</del><br>ting Und       | Appro<br>grway   |  |
| 22 Describe the p  | 22 Describe the proposed program. If this application is to DEEP        |                                     | EN or PL              | UG BACK give                           | the data or              | n the prese                               |  |  |  |                                   |                                      |                  |  |
| CEMENTING<br>SURFACE C,<br>CF/S, 6.3 GW<br>PRODUCTIO<br>PPG, 1.18 CF<br>THERE ARE  | PROGRAM<br>ASING: 400<br>V/S).<br>DN CASING:<br>T/S, 5.2 GW<br>NO OTHER | 1:<br>0 SAC<br>800<br>/S).<br>8 OPE | SACKS CLA:<br>SACKS : | 55 C w/ 4%<br>35/65 POZ<br>5 IN THIS ( | GEL,<br>H w/ 69<br>QUART | 2% CC (13.5%)<br>% GEL, 5% 5<br>"ER QUART | 5 PPG, 1<br>SALT, 1/<br>TER SEC        | 1.74 CF/:<br>/4# FC (1<br>CTION.                         | S, 9.1 GW/S). F/I<br>2.8 PPG, 1. <del>94</del> C | 3 150 SACKS CL<br>F/S, 10.4 GW/S) | ASS C w/ 29<br>. F/B 100 SA          | CKS CL           | ASS H (15.6  |
| DIRECTIONA   |   | ON: N<br>3 APF                      | NMOCD I<br>PROVED     | DISTRICT /<br>BY ADMIN                 | APPRC<br>ISTRA           | VAL REQU<br>TIVE ORDE                     | ESTED                                  | PER RU<br>60. (COF                                       | LE 104.F.(1) FO<br>Y ATTACHED)                   | R EFFICIENT PF                    | RODUCTION                            | PATTE            | RN.  |
| Division have  | iy that the rules<br>been complied<br>mplete to the b                   | with a                              | nd that the           | information giv                        |                          | •   |  |  | OIL C  | ONSERVA                           | TION DI                              | VISIC            | N  |
| Signature  | <. ۱  | Na                                  | de p                  | gracio                                 |                          |   |  | Approv   | ed By: ORIG                                      | NALSONT                           |                                      | 13). <b>70</b> 1 | N  |
| Printed Name   | C. W  | ade i                               | loward                |  | <u> </u>                 |   |  | Title:   |  |                                   | •                                    |                  |  |
| Title Eng. Assistant   |   |                                     |                       |  |                          |   | Approval DDEC 16 1996 Expiration Date: |  |  |                                   |                                      | · · · ·          |  |
| Date 12/   | 9/96  |                                     |                       | Telephor                               | 18                       | 688-4606                                  |  | Condit<br>Attached                                       | ions of Approval:                                |                                   |                                      |                  |  |
|  |   |                                     |                       |  |                          |   |  |  |  |                                   | DeSoto/N                             | lichola 10-94    | 1 ver 2.0  |



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DISTRICT 1 P. O. Box 1980, Hobbs, NM 88240

DISTRICT II P. O. Drawer DD, Artesia, NM 88210

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

DISTRICT IV P. O. Box 2088, Santa Fe, NM 87504~2088 State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994

AMENDED REPORT

Instructions on back

Submit to Appropriate District Office

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WELL LOCATION AND ACREAGE DEDICATION PLAT



° = Staked Focation • = Producing Well • relation Woll on which Class with 🞍 - Discuss & Aburnian Wol

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## DRILLING CONTROL CONDITION II-B 3000 WP

## FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED



H<sub>2</sub>S TRIM REQUIRED YES\_\_\_\_\_NO



#### DRILLING CONTROL

### MATERIAL LIST - CONDITION II - B

Texaco Wellhead

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- 3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where substructure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized).
- D Rotating Head with fill up outlet and extended Blooie Line.
- 1,3,4, 2" minimum 3000\$ W.P. flanged full opening steel gate 7,8, valve, or Halliburton Lo Torc Plug valve.
  - 2" minimum 3000# W.P. back pressure valve.
- 5,6,9 ]" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 3" minimum schedule 80, Grade "B", seamless line pipe.
- 13 2" minimum x 3" minimum 3000# W.P. flanged cross.
- 10,11 2" minimum 3000# W.P. adjustable choke bodies.
- 14 Cameron Mud Gauge or equivalent ( location optional in choke line).
- 15 2" minimum 3000\$ W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

|             |      |         |          | TEXACO, INC. |     |
|-------------|------|---------|----------|--------------|-----|
| SCALE       | DATE | EST NO. | DRG. NO. | <br>         |     |
| DAAWN BY    |      |         |          |              | · · |
| CHECKED BY  |      | 1 1     |          | EXHIBIT C    | 1   |
| APPROVED BY |      | 1 1     |          |              |     |



Texaco Exploration and Production Inc 500 North Loraine Midland TX 79701 F O Box 3109 Midland TX 79702

November 22, 1996

GOV - STATE AND LOCAL GOVERNMENTS Directional Drilling Central Vacuum Unit Well No. 175 Vacuum Grayburg-San Andres Field Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

An Exception to Rule 111 c.2 by administrative approval is requested for Texaco Exploration and Production Inc.'s Central Vacuum Unit Well No. 175.

This well must be directionally drilled because surface obstructions prevented staking it at the proposed bottom-hole location. It will be completed in the Grayburg San Andres formation and will be a producing well. Attached is a type log section, and our proposed directional plans. This well will be drilled to a TVD of 4800'.

There are no affected offset operators to this location. Attached is Form C-102 and a lease plat showing the location of the subject well.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

c. Wade Howo

C. W. Howard Adv. Technician

CWH:cwh cc: NMOCD, Hobbs, NM

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DISTRICT 1 P. O. Box 1980, Hobbs, NM 88240

DISTRICT II P. O. Drawer DD, Artesia, NM 88210

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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994

Submit to Appropriate District Office

Instructions on back

# OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088

State Lease-4 copies Fee Lease-3 copies

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| Vision         Grayburg/Son Andres           Vision         Central Vacuum Unit         175           22351         TEXACC EXPLORATION & PRODUCTION, INC.         Section           22351         TEXACC EXPLORATION & PRODUCTION, INC.         Section           2000 No.         Surface Location         Texace Explored Tools         Section           2001 No.         Section         Texace Explored Tools         Texace Explored Tools           2001 No.         Section         Texace Explored Tools         Texace Explored Tools         Texace Explored Tools           2001 No.         Section         Texace Explored Tools         Texace Explored Tools         Texace Explored Tools         Texace Explored Tools           2001 No.         Texace Explored Tool Tool         Texace Explored Tool Tool Tool         Texace Explored Tools         Texace Explored Tool Tool Tool Tool Tool Tool Tool Too  | 17   | API Number          |              |                         | <sup>2</sup> Pool Code | •         |        |                | 3   | Pool Name                              |                         | ······                               |       |
|--|--|---------------------|--------------|-------------------------|------------------------|-----------|--------|----------------|---|--|-------------------------|--------------------------------------|-------|
| N1         Central Vacuum Unit         175           00800 Nu         Soparation News         175           22351         TEXACO EXPLORATION & PRODUCTION, INC.         1983*           1         31         17-5         55         50           1         31         17-5         35-E         101 Ref. from the Netr/Seath Inte         Feet from the Location if Different From Seath Inte         East/Net line         County           1         31         17-5         35-E         110 Ref. from the Netr/Seath Inte         Feet from the Location if Different From Seath Inte         East/Net line         County           1         107-5         35-E         195-E         195-E         195-E         195-E         195-E         100         100         County         Location if Different Rom         1228*         Weet         Loca         County         Location if Different Rom         South         1228*         Loca         County         Location if Different Rom         South         1228*         Location Inter         County         Location Inter         South         South         South         128* </td <td>Property</td> <td></td> <td></td> <td><u> </u></td> <td>2180</td> <td></td> <td></td> <td></td> <td>res</td> <td></td> <td></td> <td></td>   | Property   |                     |              | <u> </u>                | 2180                   |           |        |                | res   |  |                         |                                      |       |
| Operation Num.         Experison Num.         T/7           222351         TEXACO EXPLORATION & PRODUCTION, INC.         Section         Section         Section         Section         Section         Section         Texaco Explored Num.         Feet nom the North/Seuth Inf         Feet nom the Inf         Country           L         31         17-S         35-E         Lot Inf         Feet nom the Inf         Section         Country           L         31         17-S         35-E         Lot Inf         Feet nom the Inf         East/Meet Inf         Feet nom the Inf         Country           L         31         10-S         Section         Goald Net Not         South         Feet nom the Inf         Country           L         31         10-S         Section         Country         Inf         Feet nom the Inf         Country         Lot Inf         South         Feet nom the Inf         Country           38.42         Mont or Held         Uncountry         Inf         Feet nom Note         Country         Lot Inf         Inf         Point or Held         Country           36.4         61         147         South<  |  |                     |              |                         |                        |           |        |                |   |  |                         |                                      |       |
| Z2351         TEXACE EXPLORATION & PRODUCTION, INC.         3983'           1         17-5         35-E         Let lot lot.         Transmitter         Transmitter<  |  |                     |              |                         |                        |           |        |                |   | _                                      |                         |                                      |       |
| c or bit no.       Section       Township       Range       Lot Idin       Test from the function that it is introvided in the interval interva   | 22351  |                     |              |                         | TEXACO                 | EXPLORA   | TION & | PRODUCTION     | , INC.  | •                                      |                         |                                      |       |
| L 31 17-S 35-E 2.1. In fee hold in fee hold in fee hold in the bottom the bot   |  | L Continn           | T            | B                       |                        | <u></u>   |        |                |   |  | <b>I</b>                |                                      |       |
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| Cer Main     Section     Teamhip     Bage     Lal lan     Feet from the     Basy     South     Teamhip     County       Basy     35-E     35-E     128'     West     Log       Bedicated Acres     "Juint or Infill     "County-<br>West     128'     West     Log       NO ALLOWABLE WILL BE ASSIGNED 10 THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED<br>OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.     "DPERATOR CERTIFICATION<br>1 interety centry that the afforeation<br>centre and compare to a<br>lasso ec.     "OPERATOR CERTIFICATION<br>1 interety centry that the afforeation<br>centre and compare to a<br>lasso ec. <ul> <li>50</li> <li>49</li> <li>48</li> <li>61</li> <li>61</li> <li>62</li> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <l< td=""><td></td><td></td><td></td><td></td><td>ttom Ho</td><td></td><td></td><td></td><td></td><td><u>w</u></td><td>est</td><td>Lea</td></l<></ul>   |  |                     |              |                         | ttom Ho                |           |        |                |   | <u>w</u>                               | est                     | Lea                                  |       |
| L         31         17-S         35-E         1330         South         1228         West         Local Mark         Control Mark           38.42         "Juint or Infill         "Consolidation Case         "Borace No.         1228"         West         Loc           NO ALLOWABLE WILL BE ASSIGNED 10 THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DMISION.         "DEPRATOR CERTIFICATION           36.50 ec.         45         45         47         "Depretor of form that the information of the provide of the form that and cognize to a local depretor of the form that and co  | L or lot no.   | Section             | Township     | Ronge                   |                        |           |        |                | the second se | the East                               | Attent line             | 70                                   |       |
| Vertice     Product of infill     Promocilication Code     Provider No.       NO     ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED<br>OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.     IDPERATOR CERTIFICATION       100     100     100     100       100     49     48     47       100     49     48     47       100     50     60     61     147       100     50     64     63     62       100     50     64     63     62       100     50     64     63     62       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100     100       100     100     100  |  |                     |              | 35-E                    |                        |           |        | -              |   | 1                                      |                         |                                      |       |
| NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED<br>OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DINSION.  |  | 5 <sup>13</sup> Joi | nt or Infill | <sup>1</sup> Consolidat | tion Code              |           |        |                |   | ······································ |                         |                                      |       |
| OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.<br>"38.50 oc. 44<br>50<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>50<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>6  | ÷  | <u> </u>            |              |                         |                        |           |        |                |   |  |                         |                                      |       |
| 38.50 oc.     45     46       50     49     48       50     49       50     49       60     51       38.51 oc.     59       65     54       65     54       65     54       66     63       76     64       76     76       76     75       76     75       77     725HL       76     75       77     725HL       77     725HL       76     87       77     725HL       76     87       77     725HL       76     86       77     725HL       76     86       77     725HL       78     87       78     87       78     87       78     87       78     87       78     86       78     86       78     86       78     86       78     86       78     86       78     86       78     86       78     86       78     86       78     86    <  | NO ALL   | OWABLE              | WILL BE AS   | SSIGNED                 | 10 TH                  | S COMPLE  | TION   | UNTIL ALL INTE | RESTS HA  | WE BEEN CO                             | NSOLIDA                 | TED                                  |       |
| 38.50 oc.       49       49       49       49         50       49       49       48       47         50       49       49       48       47         38.51 oc.       597       60       51       147         65       64       63       62.       November 22.       1996         76       597       54       63       62.       November 22.       1996         76       75       54       63       62.       November 22.       1996         76       75       75       56       76       96       100       100 meters and under nor inder nor under nor under nor inder nor under nor inder nor under nor inder nor under nor under nor inder nor under nor inder nor under nor inder nor inder nor inder nor inder nor under nor inder nor inde  |  |                     | OR A         | NON-S                   | TANDAR                 | ) UNIT HA | AS BEE | N APPROVED     | BY THE DI   | IVISION.                               |                         |                                      |       |
| 38.50 cc.       49       49       48       47         50       49       48       47         50       49       48       47         38.51 cc.       59,6       50       51       147         65       64       63       62.       While the information concepts to a these of my knowledge and lever.         55       64       63       62.       While the information concepts to a these of my knowledge and lever.         56       64       63       62.       Would the information concepts to a these of my knowledge and lever.         56       64       63       62.       Would the information concepts to a these of my knowledge and lever.         57       64       63       62.       Would the information concepts to a these of my knowledge and lever.         58.42 cc.       75       64       63       62.         76       75       75       75         77       7250H.       75       75         103       87       145       86         103       87       186       86         103       68       87       186         103       88       87       186         103       87       186 <td>18</td> <td><u></u></td> <td></td> <td></td> <td>.451</td> <td></td> <td></td> <td></td> <td></td> <td>) 'DDEDA'</td> <td></td> <td>TIEICATION</td>   | 18   | <u></u>             |              |                         | .451                   |           |        |                |   | ) 'DDEDA'                              |                         | TIEICATION                           |       |
|  | 38.50 ac.  | ,                   | 44           |                         | ×                      |           | 4      | <b>9</b>       | Ĩ   |  |                         |                                      |       |
| 30       49       48       47         30.51 cc.       59       60       51       147         65       64       63       62.         30.42 cc.       64       63       62.         30.42 cc.       75       64       63         105       64       63       62.         30.42 cc.       75       64       63         107       755       75       75         108       65       64       63         107       75       75       75         108       87       186       86         103       87       186       86         103       87       186       86         103       87       186       86         103       93       94       86   |  |                     |              |                         |                        |           |        | 1              |   | contained herei                        | n is true a             | nd conciete to 1                     |       |
| 38.51 oc.       559         60       61       147         65       64       63       62         65       64       63       62         70       65       64       63         70       65       64       63         70       65       64       63         70       65       64       63         70       70       70       100         75       75       75         7228       612       1725HL         7107       725HL       75         72       612       175         70       75       75         7107       725HL       345       145         103       88       67       786         88       67       786       86         66       66       66       66         703       66       66       66         70       75       75       75         70       725HL       76       76         103       68       67       786         69       67       786       66         61       786 <td>5</td> <td>0</td> <td>1</td> <td>49</td> <td>i<br/>İ</td> <td>49</td> <td></td> <td>1 47</td> <td></td> <td>best of my kno</td> <td>owledge and</td> <td>belief.</td>  | 5  | 0                   | 1            | 49                      | i<br>İ                 | 49        |        | 1 47           |   | best of my kno                         | owledge and             | belief.                              |       |
| 38.51 oc.       559         38.51 oc.       559         65       54         65       54         65       54         66       63         67       64         68       63         69       64         65       54         66       63         67       59         68       63         69       63         60       61         1107       74         76       75         76       75         77       75         76       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         77       75         775       75         775       75         775       75         78  | •  |                     | •            |                         | • I                    | •**       |        |                |   |  |                         |                                      |       |
| 38.51 cc.       50       61       147         65       64       63       62.         65       64       63       62.         166       146       166         167       166       167         168       63       62.         166       166       167         167       64       63         166       167         166       167         166       167         1707       74         1728HL       75         1707       1755HL         1728       85         187       186         187       86         187       186         187       186         187       186         187       186         187       186         187       186         187       186         187       186         187       186         188       186         188       186         188       186         188       186         188       186         188       186  |  |                     | 1            |                         | 1                      |           |        | 1              |   | Signature                              | <b>N</b>                |                                      |       |
| 38.51 cc.       50       61       147         65       64       63       62.         65       64       63       62.         166       146       Position         Engineer's Assistant         C. Wade Howard         Position       Engineer's Assistant         Company         Texaco Expl. & Prod. Inc.         Date         November 22, 1996         "SURVEYOR CERTIFICATION         I hereity certific that the set income on the part was plotted from the same is true and correct to the baset of ny knowledge and belief.         November 21, 1996         "Supervision and that the same is true and correct to the baset of ny knowledge and belief.         November 21, 1996         Supervision Surveyed         November 21, 1996         Supervision Surveyed         November 21, 1996         Supervision Surveyer         November 21, 1998         Supervision Surveyer         Supervision Surveyer         November 21, 1998         Supervision Surveyer <td co<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>c. Da</td><td>de Alan</td><td>there</td></td>  | <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>c. Da</td> <td>de Alan</td> <td>there</td> |                     |              |                         |                        |           |        |                |   |  | c. Da                   | de Alan                              | there |
| 38.51 oc.       557         65       64         65       64         66       63         76       64         76       67         76       612         77       75         78       75         77       75         76       612         77       75         76       612         77       75         76       75         77       75         78       85         1107       75         1107       75         1107       75         85       345         145       86         86       87         103       87         87       186         86       87         103       87         87       186         86       86         103       87         103       87         103       87         103       87         103       87         103       87         103       87         186 </td <td></td> <td></td> <td>ļ</td> <td>(</td> <td>60</td> <td></td> <td></td> <td>61</td> <td>147</td> <td>Printed Name</td> <td></td> <td><b>\</b></td>  |  |                     | ļ            | (                       | 60                     |           |        | 61             | 147   | Printed Name                           |                         | <b>\</b>                             |       |
| 65<br>64<br>63<br>63<br>62.<br>Engineer's Assistant<br>Company<br>Texaco Expl. & Prod. Inc.<br>Date<br>November 22, 1996<br>"SURVEYOR CERTIFICATION<br>I nereby certify that the well location sh<br>of the giver read plotted from field notes<br>of the same is or under my<br>supervision, and that the same is the earl<br>contract to the best of ny knowledge and<br>better.<br>103<br>68<br>69<br>69<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 38.51 ac.  | 59                  | +            |                         | <b></b> + -            |           |        | 4              | *   |  | loward                  |                                      |       |
| 65<br>64<br>63<br>64<br>65<br>66<br>66<br>66<br>66<br>66<br>66<br>66<br>66<br>66   |  |                     |              |                         |                        |           |        | 1              |   | Position                               |                         |                                      |       |
| 53     63     62.       Texaco Expl. & Prod. Inc.<br>Date       Jack2 ac.       Jack2 ac.       Jack2 ac.       1/38 ac.       103       85       Jack2 ac.       103       B5       Jack2 ac.       103       B5       Jack2       Ac.       Ac.       Texaco Expl. & Prod. Inc.       Date Survey Colspan="2">Date Survey Colspan="2">Date Survey Colspan="2">Convertion of that the set lice to one of my tenser of my tens   |  |                     | 1            |                         | 1                      |           |        | 1              |   | Engineer's                             | Assistar                | nt_                                  |       |
| JB 42 ac.     146       JB 42 ac.     146       VGWU90     75       76     612       1228     75       1107     75       1228     345       1107     145       1107     145       1107     105       1107     105       1107     105       1107     105       1107     105       1107     145       1107     145       1107     145       1107     145       1107     145       1107     128       1107     145       1107     145       1107     145       1107     105       1107     145       1107     128       1107     145       1107     128       1107     145       1107     145       1107     145       1107     145       1107     145       1107     145       108     145       109     145       100     100       101     100       102     145       103     145       104     198   | <b>6</b>   | 5                   | 1            |                         | 1                      | _63       |        | 62             |   | Company                                |                         |                                      |       |
| VGWU90<br>76<br>6127<br>1228<br>1007<br>1228<br>1007<br>1228<br>1007<br>1228<br>1007<br>1228<br>1007<br>1228<br>1007<br>1228<br>1007<br>1228<br>1007<br>1228<br>107<br>107<br>1255/L<br>107<br>107<br>107<br>107<br>107<br>107<br>107<br>107   | •  |                     |              | 4                       | I                      | •         |        | •••            |   | Texaco Ex                              | <u>pl. &amp; Pr</u>     | od. Inc.                             |       |
| 38.42 ac.       74   |  |                     | 1            |                         | Í                      |           |        | i              |   | Date                                   |                         |                                      |       |
| 38.42 ac.       74   |  |                     | İ            |                         | i                      | •         | ,      | 146            |   | November                               | 22, 199                 | 96                                   |       |
| VGWU90<br>76<br>612<br>1228<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75  | 18.42  |                     |              |                         | - 31 •                 |           |        |                |   | "SURVE                                 | YOR CER                 | TIFICATION                           |       |
| VGWU90<br>76<br>600<br>1228<br>6122<br>1228<br>6122<br>1228<br>6122<br>1228<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75  | 30.42 GC. ——   | 74 •                | Ti           |                         | -                      |           |        | 1              |   |  |                         |                                      |       |
| 76     006       1228     612       1228     612       1228     612       1228     145       107     1755HL       107     1755HL       187     345       187     85       187     86       103     87       188     87       188     93  |  |                     | li           |                         |                        |           |        | 1              |   | I hereby certif                        | fy that the s plotted i | well location sh<br>from field notes |       |
| 1228 <u>612</u><br>1228 <u>1775BHL</u><br>1107' <u>1755HL</u><br><u>1107'</u> <u>1755HL</u><br><u>187</u><br><u>188</u><br><u>88</u><br><u>87</u> 186<br><u>94</u><br><u>94</u><br><u>187</u><br><u>186</u><br><u>94</u><br><u>187</u><br><u>187</u><br><u>188</u><br><u>88</u><br><u>87</u> 186<br><u>94</u><br><u>94</u><br><u>88</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>88</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>88</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>88</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186<br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>87</u> 186 <u>186</u><br><u>88</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u><br><u>86</u> |  |                     |              | 75                      |                        |           | •      | 1              |   | actual surveys                         | made by m               | e or under ny                        |       |
| 1107   |  | -612                | 1' <b>•</b>  | ,,,                     |                        |           |        | 1              |   | correct to the                         | best of r               | iy knowledge and                     |       |
| 1107 <sup>-</sup><br>1755HL<br>38.42 ac.<br>187<br>187<br>103<br>88<br>87<br>186<br>93<br>93<br>93<br>93<br>185<br>185<br>185<br>185<br>185<br>185<br>185<br>185   |  | " i                 |              |                         |                        |           |        | 1              |   | Detler,                                |                         |                                      |       |
|  | 1107'-   | ¥                   |              |                         |                        |           |        | 1              |   |  |                         |                                      |       |
| 38.42 ac.       187         103       88         93       87         93       93   |  |                     |              | 345 14                  | 15,                    |           |        | I              |   | Date Surveyed                          |                         |                                      |       |
| 103<br>103<br>88<br>93<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>10  | 38.42 ac.  |                     | <b>_</b>     |                         |                        |           |        |                |   | November                               | 21 100                  |                                      |       |
| 103<br>103<br>88<br>93<br>103<br>87<br>186<br>86<br>86<br>103<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>67<br>186<br>194<br>194<br>194<br>194<br>194<br>194<br>194<br>194  |  | 1B7_                |              |                         | I                      |           |        |                |   | Signature & Sea                        | 1 of                    |                                      |       |
| •00 00 186 00 00 00 00 00 00 00 00 00 00 00 00 00  | 10   | •                   |              |                         |                        |           |        | 1              |   | Professional Sun                       | neyor                   |                                      |       |
| 93<br>93   |  |                     |              | 87                      | 186                    | 86        |        |                |   |  | ()                      |                                      |       |
| 93   |  |                     | 6            |                         | 0                      | · .       |        | 1              |   | h                                      |                         | K                                    |       |
| 93   |  |                     | 1            |                         | ł                      |           |        |                |   | $\Lambda$ $\Lambda$                    |                         | <hr/>                                |       |
| 93   |  |                     | 1            |                         | 1                      |           |        |                |   | Jon                                    | Vyn                     | مر                                   |       |
|  | <u>t</u>   |                     | <u>• 1</u>   | ·                       | 94                     |           |        | - <b>I</b>     |   | Certificate No.                        | V                       |                                      |       |
|  |  | 5.                  | •            |                         |                        |           |        |                |   | 7254 Johr                              | n S. Pip                | er                                   |       |
|  |  |                     |              |                         |                        |           |        |                |   |  | l.                      |                                      |       |
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Plane of Vertical Section = 30.59\*



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# **PHOENIX DRILLING SERVICES** DIRECTIONAL WELLPLAN

| COMPANY:  | TEXACO EXPL & PROD, INC. | DATE: | 11/22/96 |
|-----------|--------------------------|-------|----------|
| WELL:     | CVU NO. 175              |       | 1112030  |
| LOCATION: | LEA COUNTY, NEW MEXICO   |       |          |
|           |                          |       |          |

MINIMUM CURVATURE CALCULATIONS

PROPOSED DIRECTION DEGREES AZIMUTH

30.59

| SUR |                |       |       |        |                   |          | VERT  | DLS/ |
|-----|----------------|-------|-------|--------|-------------------|----------|-------|------|
| NO. | MD             | INC   | AZM   | TVD    | N-8               | È<br>E-₩ | SECT  | 100  |
| KOP | 2373.1         | 0.00  | 30.59 | 2373.1 | 0.0               | 0.0      | 0.0   | 0.0  |
| 1   | <b>2400</b> .0 | 0.67  | 30.59 | 2400.0 | 0.1               | 0.1      | 0.2   | 2.5  |
| 2   | 2500.0         | 3.17  | 30.59 | 2499.9 | 3.0               | 1.8      | 3.5   | 2.5  |
| 3   | 2600.0         | 5.67  | 30.59 | 2599.6 | 9.7               | 5.7      | 11.2  | 2.5  |
| 4   | 2700.0         | 8.17  | 30.59 | 2698.9 | 20.0              | 11.8     | 23.3  | 2.5  |
| 5   | 2800.0         | 10.67 | 30.59 | 2797.5 | 34.1              | 20.2     | 39.6  | 2.5  |
| 6   | 2900.0         | 13.17 | 30.59 | 2895.4 | 51.9              | 30.7     | 60.3  | 2.5  |
| 7   | 3000.0         | 15.67 | 30.59 | 2992.2 | 73.3              | 43.3     | 85.2  | 2.5  |
| 8   | 3013.1         | 16.00 | 30.59 | 3004.8 | 78.4              | 45.2     | 88.8  | 2.5  |
| 9   | 3100.0         | 16.00 | 30.59 | 3088.4 | 97.0              | 57.4     | 112.7 | 0.0  |
| 10  | 3200.0         | 16.00 | 30.59 | 3184.5 | 120.8             | 71.4     | 140.3 | 0.0  |
| 11  | 3300.0         | 16.00 | 30.59 | 3280.6 | 144.5             | 85.4     | 167.8 | 0.0  |
| 12  | 3400.0         | 16.00 | 30.59 | 3376.7 | 168.2             | 99.4     | 195.4 | 0.0  |
| 13  | 3473.3         | 16.00 | 30.59 | 3447.2 | 186.6             | 109.7    | 215.6 | 0.0  |
| 14  | 3500.0         | 15.60 | 30.59 | 3472.9 | 191.9             | 113.4    | 222.9 | 1.5  |
| 15  | 3600.0         | 14.10 | 30.59 | 3569.5 | 213. <del>9</del> | 126.5    | 248.5 | 1.5  |
| 16  | 3700.0         | 12.60 | 30.59 | 3866.8 | 233.8             | 138.2    | 271.6 | 1.5  |
| 17  | 3800.0         | 11.10 | 30.59 | 3764.7 | 251.5             | 148.7    | 292.1 | 1.5  |
| 18  | 3900.0         | 9.60  | 30.59 | 3863.1 | 266.9             | 157.8    | 310.1 | 1.5  |
| 19  | 4000.0         | 8.10  | 30.59 | 3961.9 | 280.2             | 165.6    | 325.5 | 1.5  |
| 20  | 4100.0         | 6.60  | 30.59 | 4061.1 | 291.2             | 172.1    | 338.3 | 1.5  |
| 21  | 4200.0         | 5.10  | 30.59 | 4160.5 | 300.0             | 177.3    | 348.5 | 1.5  |
| 22  | 4300.0         | 3.60  | 30.59 | 4260.2 | 306.5             | 181.2    | 356.0 | 1.5  |
| 23  | 4400.0         | 2.10  | 30.59 | 4360.1 | 310.8             | 183.7    | 361.0 | 1.5  |
| 24  | 4539.9         | 0.00  | 30.59 | 4500.0 | 313.0             | 185.0    | 363.6 | 1.5  |
| 25  | <b>4600</b> .0 | 0.00  | 30.59 | 4560.1 | 313.0             | 185.0    | 363.6 | 0.0  |
| 26  | 4700.0         | 0.00  | 30.59 | 4660.1 | 313.0             | 185.0    | 363.6 | 0.0  |
| 27  | 4800.0         | 0.00  | 30.59 | 4760.1 | 313.0             | 185.0    | 363.6 | 0.0  |
| 28  | 4889.9         | 0.00  | 30.59 | 4850.0 | 313.0             | 185.0    | 363.6 | 0.0  |



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VACUUM CHATTERIE SAM AMMER FIELD TERACO BAP INC. VACUUM 36 STATE COM #1 2310' PEL 4 640' FEL SEC. 36 170-348 184 COMPT. MEM MEXICO

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# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE. NEW MEXICO 87505 (505) 827-7131

December 4, 1996

Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79702 Attention: C. W. Howard

Administrative Order DD-160

Dear Mr. Howard:

Under the provisions of **Rules 111.D** and **E** of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995 and Rule 104.F, revised by Division Order No. R-10533, issued by the Commission in Case 11351 on January 18, 1996, Texaco Exploration and Production Inc. made application to the New Mexico Oil Conservation Division on November 22, 1996 for authorization to directional drill its proposed Central Vacuum Unit Well No. 175, Lea County, New Mexico.

# The Division Director Finds That:

- (1) The proposed wellbore to be drilled to a pre-determined bottom-hole location is within the applicant's Central Vacuum Unit Pressure Maintenance Project Area, established by Division Order No. R-5530, as amended, and as such the Vacuum Grayburg-San Andres Pool is subject to the statewide rules and regulations for oil wells, as promulgated by Rules 104.C(1)(a) and F(1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of the lease or unitized area, nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary;
- (2) Under the provisions of said **Rule 104.F(1)** the applicant further requests that the bottom-hole location be unorthodox for the purpose of completing an efficient injection/production pattern within the Central Vacuum Unit Pressure Maintenance Project Area;

(3) It is Texaco's intent to place its Central Vacuum Unit Well No. 175 at a surface location 1617 feet from the South line and 1107 feet from the West line (Unit L) of

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Administrative Order DD-160 Texaco Exploration and Production, Inc. December 4, 1996 Page 2

> Section 31, Township 17 South, Range 35 East, NMPM, Vacuum Grayburg-San Andres Pool, Central Vacuum Unit Area, Lea County, New Mexico, drill vertically to an approximate depth of 2375 feet, kick-off in a northeasterly direction, and drill directionally to a targeted unorthodox bottomhole oil well location that is approximately 1930 feet from the South line and 1228 feet from the West line, also

It appears the applicant has satisfied all of the appropriate requirements prescribed (4) in said Rules 111.D and E and 104.F, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable and/or practical provisions of Division General Rules 111 and

# IT IS THEREFORE ORDERED THAT:

Texaco Exploration and Production, Inc. is hereby authorized to drill its Central (1)Vacuum Unit Well No. 175 from a surface location 1617 feet from the South line and 1107 feet from the West line (Unit L) of Section 31, Township 17 South, Range 35 East, NMPM, Central Vacuum Unit Area, Lea County, New Mexico, and intentionally deviate to a targeted unorthodox bottomhole oil well location within the Vacuum Grayburg-San Andres Pool that is approximately 1930 feet from the South line and 1228 feet from the West line, also in Unit "L" of said Section 31.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional

PROVIDED FURTHER THAT during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

The applicant shall notify the supervisor of the Hobbs District office of the Division (2)of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of

The operator shall comply with all requirements and conditions set forth in Division (3) General Rule 111.E(2) and any applicable and/or practical requirements in 111.D and F and

Administrative Order DD-160 Texaco Exploration and Production, Inc. December 4, 1996 Page 3

Form C-105 shall be filed in accordance with Division Rule 1105 and the operator (4) shall indicate thereon true vertical depth (TVD) in addition to measured depths (MVD).

Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

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STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY Director

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Oil Conservation Division - Hobbs cc: New Mexico State Land Office - Santa Fe



