

1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-101  
Revised June 10, 2003

Submit to appropriate District Office  
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☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|  |  |   |
|--|--|---|
| <sup>1</sup> Operator Name and Address<br>Twining Drilling Corporation<br>332 White Oak Drive NE<br>Albuquerque, NM 87122-1411 |  | <sup>2</sup> OGRID Number<br>164187         |
| <sup>3</sup> Property Code<br>30918  |  | <sup>3</sup> API Number<br>30 - 061 - 20036 |
| <sup>5</sup> Property Name<br>NAT  |  | <sup>6</sup> Well No.<br>4                  |

|                               |         |          |       |         |               |                  |               |                |          |                         |  |
|-------------------------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|-------------------------|--|
| <sup>7</sup> Surface Location |         |          |       |         |               |                  |               |                |          | Projected from N.M.P.M. |  |
| UL or lot no.                 | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |                         |  |
| M                             | 15      | 4N       | 1E    |         | 660'          | FSL              | 990'          | FWL            | Valencia |                         |  |

|  |         |          |       |         |               |                               |               |                |        |  |  |
|--|---------|----------|-------|---------|---------------|-------------------------------|---------------|----------------|--------|--|--|
| <sup>8</sup> Proposed Bottom Hole Location If Different From Surface |         |          |       |         |               |                               |               |                |        |  |  |
| UL or lot no.  | Section | Township | Range | Lot Idn | Feet from the | North/South line              | Feet from the | East/West line | County |  |  |
| <sup>9</sup> Proposed Pool 1   |         |          |       |         |               | <sup>10</sup> Proposed Pool 2 |               |                |        |  |  |

|                                   |   |                                    |                                    |  |
|-----------------------------------|---|------------------------------------|------------------------------------|--|
| <sup>11</sup> Work Type Code<br>N | <sup>12</sup> Well Type Code<br>G       | <sup>13</sup> Cable/Rotary<br>R    | <sup>14</sup> Lease Type Code<br>P | <sup>15</sup> Ground Level Elevation<br>5,180' |
| <sup>16</sup> Multiple<br>NO      | <sup>17</sup> Proposed Depth<br>15,000' | <sup>18</sup> Formation<br>Entrada | <sup>19</sup> Contractor<br>Key    | <sup>20</sup> Spud Date<br>7-4-04              |

|  |                |                    |               |                 |               |
|--|----------------|--------------------|---------------|-----------------|---------------|
| <sup>21</sup> Proposed Casing and Cement Program |                |                    |               |                 |               |
| Hole Size  | Casing Size    | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
| 17 1/2"  | 13 3/8"        | 54.5#              | 2,000'        | 1,015           | Surface       |
| 12 1/4"  | 9 5/8"         | 36.0#              | 7,500'        | 1,015           | 5,000'        |
| 8 1/2"   | 5 1/2" to T.D. | 17.0# and 20.0#    | 15,000'       | 750             | 7,000'        |
|  |                |                    |               |                 |               |
|  |                |                    |               |                 |               |

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

A rotary rig will drill and set 2,000' ± of 13 3/8" surface casing and a 12 1/4" hole to 7,500'. An 8 1/2" hole from 7,500' to 15,000' using 2,000' of 20# N 80 and 17# N 80 to T.D. A 5M double B.O.P. and 5M annular B.O.P. will be installed on 9 5/8" casing.

OIL CONSERVATION COMMISSION TO BE NOTIFIED  
WITHIN 24 HOURS OF BEGINNING OPERATIONS

|  |                       |   |                          |
|--|-----------------------|---|--------------------------|
| <sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. |                       | OIL CONSERVATION DIVISION   |                          |
| Signature: <i>Nathan Twining</i>   |                       | Approved by: <i>[Signature]</i>   |                          |
| Printed name: Nathan A. Twining  |                       | Title: DISTRICT SUPERVISOR  |                          |
| Title: President   |                       | Approval Date: 4/12/04  | Expiration Date: 4/12/05 |
| E-mail Address:  |                       |   |                          |
| Date: April 2, 2004  | Phone: (505) 856-2238 | Conditions of Approval: COLLECT AND SACK SAMPLES FOR<br>NEW MEXICO BUREAU OF MINES, SOCORRO<br>Attached <input type="checkbox"/> AT AT LEAST TEN FOOT INTERVALS |                          |

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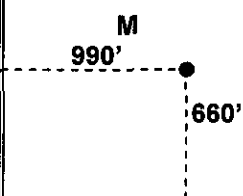
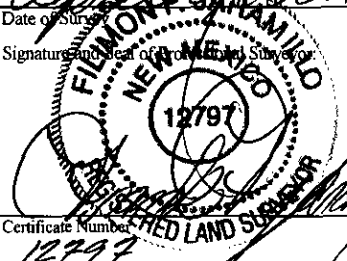
Form C-102  
Revised June 10, 2003  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|  |               |  |             |                                  |                       |                         |                       |                                  |                    |
|--|---------------|--|-------------|----------------------------------|-----------------------|-------------------------|-----------------------|----------------------------------|--------------------|
| <sup>1</sup> API Number                                      |               | <sup>2</sup> Pool Code                                     |             | <sup>3</sup> Pool Name           |                       |                         |                       |                                  |                    |
| <sup>4</sup> Property Code                                   |               | <sup>5</sup> Property Name<br>NAT                          |             |                                  |                       |                         |                       | <sup>6</sup> Well Number<br>4    |                    |
| <sup>7</sup> OGRID No.<br>164187                             |               | <sup>8</sup> Operator Name<br>Twining Drilling Corporation |             |                                  |                       |                         |                       | <sup>9</sup> Elevation<br>5,180' |                    |
| <sup>10</sup> Surface Location                               |               |  |             |                                  |                       |                         |                       |                                  |                    |
| UL or lot no.<br>M   | Section<br>15 | Township<br>4N   | Range<br>1E | Lot Idn                          | Feet from the<br>660' | North/South line<br>FSL | Feet from the<br>990' | East/West line<br>FWL            | County<br>Valencia |
| <sup>11</sup> Bottom Hole Location If Different From Surface |               |  |             |                                  |                       |                         |                       |                                  |                    |
| UL or lot no.  | Section       | Township   | Range       | Lot Idn                          | Feet from the         | North/South line        | Feet from the         | East/West line                   | County             |
| <sup>12</sup> Dedicated Acres<br>160                         |               | <sup>13</sup> Joint or Infill                              |             | <sup>14</sup> Consolidation Code |                       | <sup>15</sup> Order No. |                       |                                  |                    |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|   |  |        |  |   |  |
|---|--|--------|--|---|--|
| <sup>16</sup>   |  |        |  | <sup>17</sup> OPERATOR CERTIFICATION<br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.<br><i>Nathan Twining</i><br>Signature<br>Nathan A. Twining<br>Printed Name<br>President<br>Title and E-mail Address<br>April 2, 2004<br>Date  |  |
| NW 1/4  |  | NE 1/4 |  |   |  |
| SW 1/4  |  | SE 1/4 |  |   |  |
|  |  |        |  | <sup>18</sup> SURVEYOR CERTIFICATION<br>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.<br><i>April 2, 2004</i><br>Date of Survey<br><i>[Signature]</i><br>Signature and Seal of Professional Surveyor<br><br>Certificate Number 12797 |  |

Section 15 (640 acres)