

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
811 South First, Artesia, NM 88210

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

District IV  
2040 South Pacheco, Santa Fe, NM 87505

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

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

Form C-101  
Revised October 18, 1994

Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

|                                                                                                           |                                     |                                           |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|
| <sup>1</sup> Operator Name and Address<br>Trilogy Operating, Inc<br>P.O. Box 7606<br>Midland, Texas 79708 |                                     | <sup>2</sup> OGRID Number<br>021602       |
|                                                                                                           |                                     | <sup>3</sup> API Number<br>30 - 025-35906 |
| <sup>4</sup> Property Code<br>29725                                                                       | <sup>5</sup> Property Name<br>Topaz | <sup>6</sup> Well No.<br>1                |

**Surface Location**

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West Line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 2425    | 19S      | 38E   |         | 400           | North            | 2050          | West           | Lea    |

**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 |
|-------------------------------------------------------|---------|----------|-------|---------|-------------------------------|------------------|---------------|----------------|--------|
| C                                                     | 2425    | 19S      | 38E   |         | 400                           | North            | 2050          | West           | Lea    |
| <sup>9</sup> Proposed Pool 1<br>Nadine ; Drinkard-Abo |         |          |       |         | <sup>10</sup> Proposed Pool 2 |                  |               |                |        |

|                                   |                                      |                                 |                                               |                                              |
|-----------------------------------|--------------------------------------|---------------------------------|-----------------------------------------------|----------------------------------------------|
| <sup>11</sup> Work Type Code<br>N | <sup>12</sup> Well Type Code<br>O    | <sup>13</sup> Cable/Rotary<br>R | <sup>14</sup> Lease Type Code<br>P            | <sup>15</sup> Ground Level Elevation<br>3589 |
| <sup>16</sup> Multiple<br>No      | <sup>17</sup> Proposed Depth<br>8000 | <sup>18</sup> Formation<br>Abo  | <sup>19</sup> Contractor<br>Star Drilling # 3 | <sup>20</sup> Spud Date<br>05-21-02          |

**Proposed Casing and Cement Program**

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|---------------|
| 12 1/4    | 8 5/8       | 24                 | 1700          | 650             | circulate     |
| 7 7/8     | 5 1/2       | 17                 | 8000          | 900             | circulate     |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |

<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.

- 1) Drill 12 1/4" hole w/ fresh water mud to an approximate depth of 1700'
- 2) Set 8 5/8" - 24# J-55 casing and cement w/ aproximately 650 sx class "c" w/ additives , or amount of cement needed to circulate to surface
- 3) WOC 24 hrs , Drill 7 7/8" hole w/ brine water mud to aproximately 8000' or depth to suffeciently test the Abo Formation
- 4) Run open hole logs and determine productivity potential of wellbore
- 5) Either plug & abandon well as per NMOCD instructions or Run 5 1/2" - 17# N80 csg to a setting depth to cover Abo Formation or productive horizon - cement w/ lead class "c" & tail class "h" cement so as to circulate cement to surface - volumes will be determined

<sup>23</sup>I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:   
Printed name: Michael G. Mooney

Title: Engineer

Date: 05-01-02

Phone: 915-686-2027

**OIL CONSERVATION DIVISION**

Approved By: PAUL F. KAUTZ  
Title: PETROLEUM ENGINEER

Approval Date: MAY 13 2002

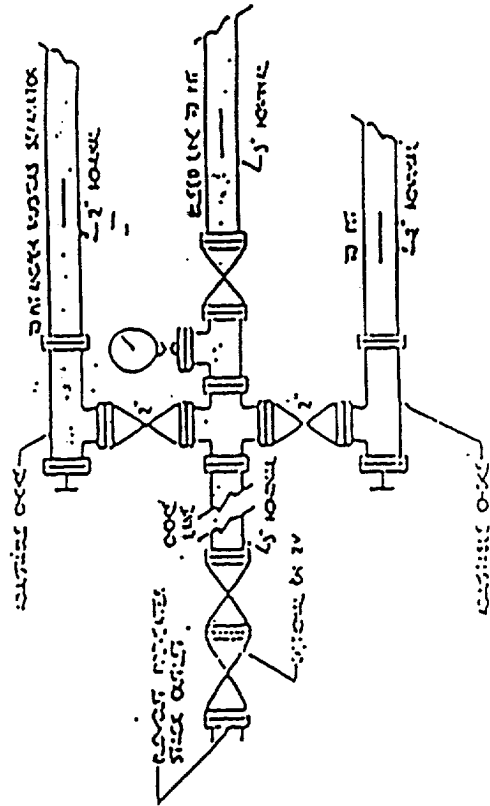
Expiration Date:

Conditions of Approval:  
Attached: ☐

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway

JCA





PROPOSED BOP' CONFIGUREMNT

Hubbs  
UDD

RECEIVED

## DISTRICT I

P.O. Box 1-80, Hobbs, NM 88241-1980

## State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                                   |                                         |                                    |
|-----------------------------------|-----------------------------------------|------------------------------------|
| API Number<br><b>30-025-35906</b> | Pool Code<br>47510                      | Pool Name<br>Nadine : Drinkard-Abo |
| Property Code<br><b>29725</b>     | Property Name<br>TOPAZ                  | Well Number<br>1                   |
| OGRID No.<br>021602               | Operator Name<br>TRILOGY OPERATING INC. | Elevation<br>3589'                 |

## Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 25      | 19-S     | 38-E  |         | 400           | NORTH            | 2050          | WEST           | LEA    |

## Bottom Hole Location If Different From Surface

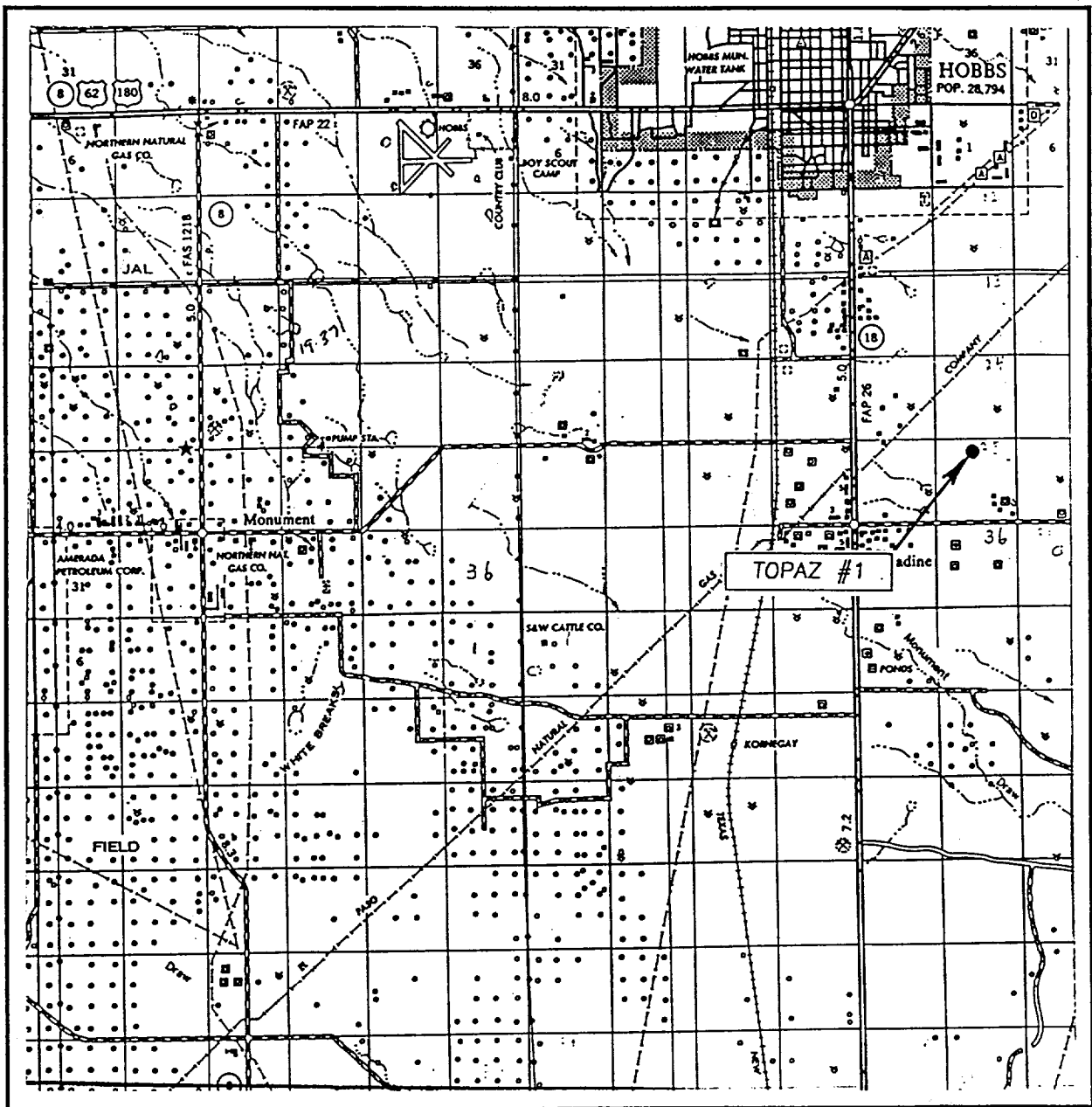
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 40              | I               |                    |           |

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

|  |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>GEODETTIC COORDINATES</p> <p>NAD 27 NME</p> <p>Y = 597744</p> <p>X = 878605</p> <p>LAT. = 32°38'14.19"N</p> <p>LONG. = 103°06'12.47"W</p> | <p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature </p> <p>Printed Name <u>Michael G. Mooney</u></p> <p>Engineer</p> <p>Title</p> <p>5/03/02</p> <p>Date</p>                                                                                                                                                                  |  |
|  |                                                                                                                                              | <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>APRIL 19, 2002</p> <p>Date Surveyed</p> <p>Signature &amp; Seal of Professional Surveyor </p> <p>Certification No. <u>RONALD L. EDSON 3239</u></p> <p>CERTIFIED SURVEYOR <u>12641</u></p> |  |
|  |                                                                                                                                              | <p>AWB</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|  |                                                                                                                                              | <p></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |

# VICINITY MAP

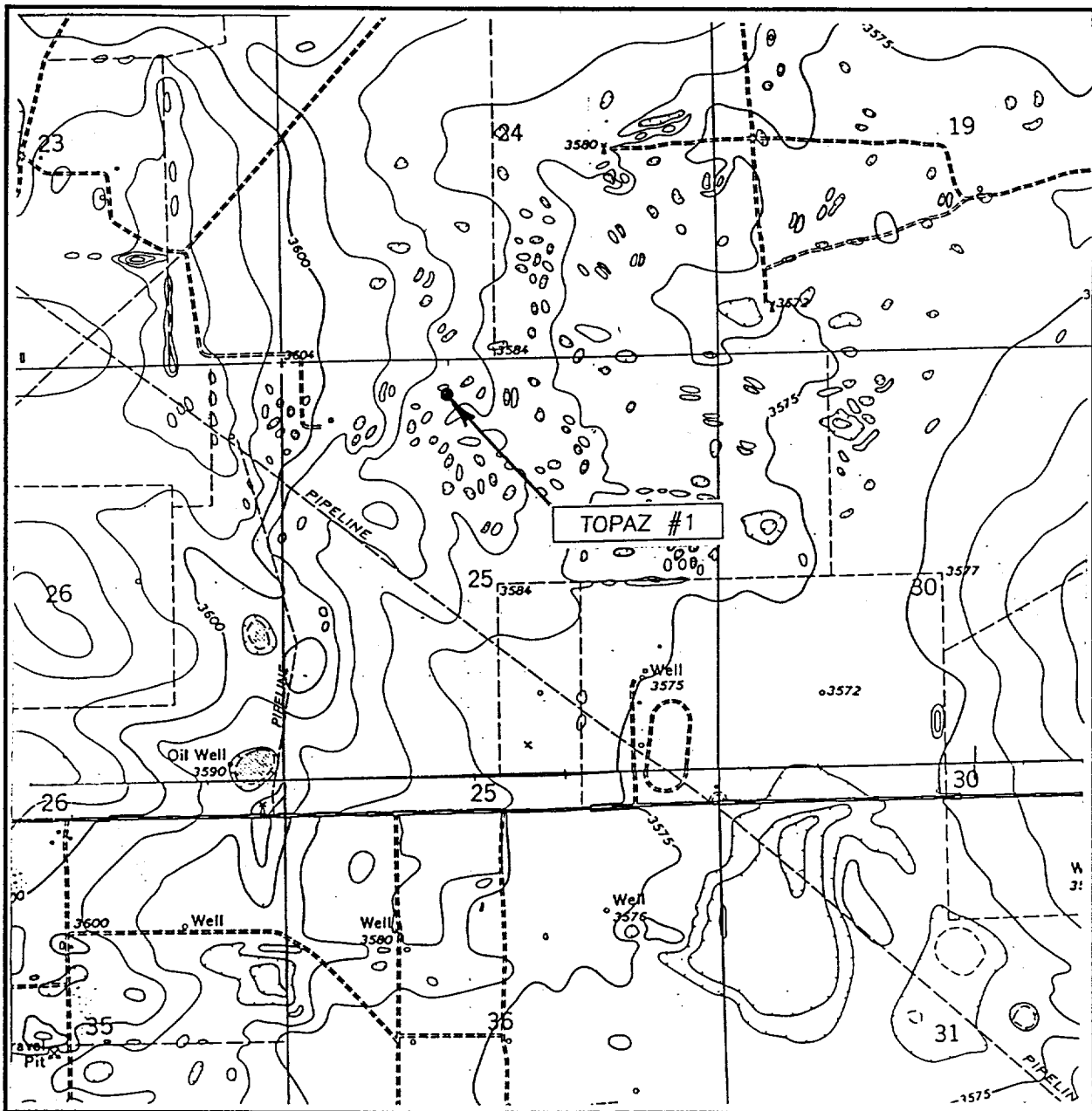


SCALE: 1" = 2 MILES

SEC. 25 TWP. 19-S RGE. 38-E  
 SURVEY N.M.P.M.  
 COUNTY LEA  
 DESCRIPTION 400' FNL & 2050' FWL  
 ELEVATION 3589'  
 OPERATOR TRILOGY OPERATING INC.  
 LEASE TOPAZ

JOHN WEST SURVEYING  
 HOBBS, NEW MEXICO  
 (505) 393-3117

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 5'

SEC. 25 TWP. 19-S RGE. 38-E

HOBBS SE, N.M.

HOBBS EAST, N.M.

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 400' FNL & 2050' FWL

ELEVATION 3589'

OPERATOR TRILOGY OPERATING INC.

LEASE TOPAZ

U.S.G.S. TOPOGRAPHIC MAP  
HOBBS EAST, HOBBS SE, N.M.

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117

ELF 11/25/02  
ABOVE LOGS NOT  
INDICATED WHEN  
CONFIDENTIAL LOGS  
WILL BE RELEASED