

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 14 1996

Bureau of Land Management  
Durango, Colorado

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                      |                                                                                                                                                  |                 |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1a. Type of Work<br>DRILL                                                                                                            | 5. Lease Number<br>751-94-0007<br>Unit Reporting Number                                                                                          |                 |
| 1b. Type of Well<br>GAS                                                                                                              | 6. If Indian, All. or Tribe<br>Ute Mountain Ute                                                                                                  |                 |
| 2. Operator<br>MERIDIAN OIL<br>145.38                                                                                                | 7. Unit Agreement Name                                                                                                                           |                 |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br>(505) 326-9700                                            | 8. Farm or Lease Name<br>18925 Ute Mountain Ute<br>9. Well Number<br>42                                                                          |                 |
| 4. Location of Well<br>790' FSL, 1740' FWL<br>Latitude 36° 57.3, Longitude 108° 21.2                                                 | 10. Field, Pool, Wildcat<br>96353 Barker Dome Desert Creek<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>N Sec 30, T-32-N, R-14-W<br>API #30-045-29358 ✓ |                 |
| 14. Distance in Miles from Nearest Town<br>8 miles to LaPlata                                                                        | 12. County<br>San Juan                                                                                                                           | 13. State<br>NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>790'                                                        | 17. Acres Assigned to Well<br>320 W/2 ✓                                                                                                          |                 |
| 16. Acres in Lease                                                                                                                   | 18. Distance from Proposed Location to Nearest Well - Once Cumulative Applied for on this Lease<br>5000'                                         |                 |
| 19. Proposed Depth<br>9260'                                                                                                          | 20. Rotary or Cable Tools<br>Rotary                                                                                                              |                 |
| 21. Elevations (DF, FT, GR, Etc.)<br>6823' GR ✓                                                                                      | 22. Approx. Date Work will Start<br>2nd quarter 1996                                                                                             |                 |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                                                            | APPROVED FOR A PERIOD<br>NOT TO EXCEED 1 YEAR.<br>Venting / Flaring approved for 30 days<br>per NTL-4A                                           |                 |
| 24. Authorized by: <br>Regional Drilling Engineer | 2-12-96<br>Date                                                                                                                                  |                 |

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY (s) Jim Lovato

TITLE AREA MANAGER

DATE MAR 13 1996

ACTING

Archaeological Report submitted by LaPlata Archaeological Consultants Report #9537e dated 10-03-95  
Threatened and Endangered Species Report submitted by Ecosphere Environmental Services dated 10-09-95  
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3



NMCCB

District I  
PO Box 1988, Hobbs, NM 88241-1988  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Bravo Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                             |                                    |                    |                                           |
|-----------------------------|------------------------------------|--------------------|-------------------------------------------|
| API Number<br>30-045- 29358 |                                    | Pool Code<br>96353 | Pool Name<br>Barker Dome Desert Creek EXT |
| Property Code<br>18725      | Property Name<br>Ute Mtn. Ute      |                    | Well Number<br>42                         |
| OGRID No.<br>14538          | Operator Name<br>Meridian Oil Inc. |                    | Elevation<br>6823'                        |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 30      | 32 N     | 14 W  |         | 790           | South            | 1740          | West           | S.J.   |

<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>W/320 | <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><br><br>1-22-IND-2772<br>751-94-0007<br>1740'<br>790' | <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><br><br>Signature<br>Peggy Bradfield<br>Printed Name<br>Regulatory Administrator<br>Title<br>1-5-96<br>Date                                                                                       |  |
|                                                                    | <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><br>9-09-95<br>Date of Survey<br>Signature and Seal of Professional Surveyor:<br><br>Certificate Number |  |
|                                                                    |                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                    |                                                                                                                                                                                                                                                                                                                                                                  |  |

January 5, 1996

**OPERATIONS PLAN**

**Well Name:** Ute Mountain Ute #42  
**Location:** 790' FSL, 1740' FWL, Section 30, T-32-N, R-14-W  
San Juan County, NM  
**Formation:** Barker Dome Desert Creek  
**Elevation:** 6823' GR

| <b>Formation:</b>            | <b>Top</b>   | <b>Bottom</b> | <b>Contents</b>                                 |
|------------------------------|--------------|---------------|-------------------------------------------------|
| Surface                      | Menefee      | 789'          |                                                 |
| Point Lookout                | 789'         | 1271'         | fresh water                                     |
| Mancos                       | 1271'        | 2284'         |                                                 |
| <b>8 5/8" surface casing</b> | <b>1521'</b> |               | <b>+ 250' into Mancos</b>                       |
| Niobrara                     | 2284'        | 2946'         |                                                 |
| Greenhorn                    | 2946'        | 3026'         |                                                 |
| Graneros                     | 3026'        | 3072'         |                                                 |
| Dakota                       | 3072'        | 3340'         | gas                                             |
| Morrison                     | 3340'        | 3839'         | fresh water                                     |
| Junction Creek               | 3839'        | 4205'         | salt water                                      |
| Summerville                  | 4205'        | 4299'         |                                                 |
| Todilto                      | 4299'        | 4311'         |                                                 |
| Entrada                      | 4311'        | 4413'         | salt water                                      |
| Chinle                       | 4413'        | 5882'         |                                                 |
| Cutler                       | 5882'        | 7471'         |                                                 |
| Hermosa                      | 7471'        | 8594'         |                                                 |
| Ismay                        | 8594'        | 8786'         | gas (potentially 100-1580 ppm H <sub>2</sub> S) |
| Desert Creek                 | 8786'        | 8889'         | gas (potentially 4-11,900 ppm H <sub>2</sub> S) |
| Akah                         | 8889'        | 9054'         |                                                 |
| Upper Barker Creek           | 9054'        |               | gas (potentially 0-12,000 ppm H <sub>2</sub> S) |
| Total Depth                  | <b>9260'</b> |               |                                                 |

**Logging Program:**

Mud logs - Niobrara to Total Depth  
Wireline Logs - AIT, LDT-APS, DSSI, FMI - to Total Depth

**Mud Program:**

| <u>Interval</u> | <u>Type</u>    | <u>Weight</u> | <u>Vis</u> | <u>Fluid Loss</u> |
|-----------------|----------------|---------------|------------|-------------------|
| 0 - 90'         | Air            | N/A           | N/A        | N/A               |
| 90 - SCP        | Spud           | 8.4-8.9       | 40         | No Control        |
| SCP-T.Ismay     | Fresh Water    | 8.4-8.6       | 26-30      | No Control        |
| T.Ismay-TD      | LSND/Dispersed | 8.4-9.0       | 36-50      | Less than 12      |

**Casing Program: (all casing will be new)**

| <u>Hole Size</u> | <u>Depth Interval</u> | <u>Csg. Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|------------------|------------|--------------|
| 26"              | 0' - 90'              | 16"              |            | Conductor    |
| 12 1/4"          | 0' - 1521'            | 8 5/8"           | 24.0#      | K-55 LT&C    |
| 7 7/8"           | 0' - 9260'            | 5 1/2"           | 17.0#      | L-80 LT&C    |

**Tubing Program:** 0' - 9260' 2 7/8" tubing

**MERIDIAN OIL INC**  
**UTE MOUNTAIN UTE #42**

**T 32 N, R 14 W**

**2000' New Construction**

**T 32 N, R 13 W**

|                  |       |
|------------------|-------|
| Section 31: NWSW | 300'  |
| SESW             | 1400' |
| SWSE             | 1000' |
| NWSE             | 400   |

**T 31 N, R 13 W**

|         |       |
|---------|-------|
| 5: NENW | 1600' |
|---------|-------|

**APD MAP #1**





