

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|   |  |
|---|--|
| 1a. Type of Work<br>DRILL   | 5. Lease Number<br>SF-078881<br>Unit Reporting Number  |
| 1b. Type of Well<br>GAS   | 6. If Indian, All. or Tribe  |
| 2. Operator<br><b>BURLINGTON RESOURCES</b><br>Oil & Gas Company<br>14538  | 7. Unit Agreement Name<br>Canyon Largo Unit<br>6886  |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br>(505) 326-9700   | 8. Farm or Lease Name<br>Canyon Largo Unit<br>9. Well Number<br>448  |
| 4. Location of Well<br>1600' FSL, 1150' FWL<br>Latitude 36° 24.7, Longitude 107° 31.8   | 10. Field, Pool, Wildcat<br>Basin Dakota 71589<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>Sec 12, T-25-N, R-7-W<br>API # 30-039-26007 |
| 14. Distance in Miles from Nearest Town<br>30 miles to Blanco   | 12. County<br>Rio Arriba<br>13. State<br>NM  |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1150'  |  |
| 16. Acres in Lease  | 17. Acres Assigned to Well<br>320 W/2  |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4. |  |
| 19. Proposed Depth<br>7614'   | 20. Rotary or Cable Tools<br>Rotary  |
| 21. Elevations (DF, FT, GR, Etc.)<br>6903' GR   | 22. Approx. Date Work will Start   |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached   | DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"                                    |
| 24. Authorized by: <u>[Signature]</u><br>Regulatory/Compliance Administrator  | Date <u>8/25/98</u>  |

PERMIT NO. \_\_\_\_\_ APPROVAL DATE OCT 9 0 1998  
APPROVED BY [Signature] TITLE Acting Team Lead DATE 10/30/98

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

District II  
PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

PO Box 2088

Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                     |  |                            |
|-------------------------------------|--|----------------------------|
| *API Number<br>30-039- <u>26007</u> | *Pool Code<br>71599                                      | *Pool Name<br>Basin Dakota |
| *Property Code<br>6886              | *Property Name<br>CANYON LARGO UNIT                      | *Well Number<br>448        |
| *GRID No.<br>14538                  | *Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY | *Elevation<br>6903'        |

<sup>10</sup> Surface Location

|                    |               |                 |             |         |                       |                           |                       |                        |                      |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|----------------------|
| UL or lot no.<br>L | Section<br>12 | Township<br>25N | Range<br>7W | Lot Idn | Feet from the<br>1600 | North/South line<br>SOUTH | Feet from the<br>1150 | East/West line<br>WEST | County<br>RIO ARriba |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|----------------------|

<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>NMSF-078881<br>12<br>5191.56'<br>1150'<br>1600'<br>5176.38'<br>5293.86'<br>5196.18' | <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>8/24/98<br>Date |
|  |  |

## OPERATIONS PLAN

**Well Name:** Canyon Largo Unit #448  
**Location:** 1600' FSL, 1150' FWL Sec 12, T-25-N, R-7-W  
Rio Arriba County, NM  
Latitude 36° 24.7, Longitude 108° 31.8  
**Formation:** Basin Dakota  
**Elevation:** 6903' GL

| <b><u>Formation Tops:</u></b> | <b><u>Top</u></b> | <b><u>Bottom</u></b> | <b><u>Contents</u></b> |
|-------------------------------|-------------------|----------------------|------------------------|
| Surface                       | San Jose          | 467'                 |                        |
| Nacimiento                    | 467'              | 2122'                |                        |
| Ojo Alamo                     | 2122'             | 2331'                | aquifer                |
| Kirtland                      | 2331'             | 2615'                | gas                    |
| Fruitland                     | 2615'             | 2806'                |                        |
| Pictured Cliffs               | 2806'             | 2943'                | gas                    |
| Lewis                         | 2943'             | 3204'                | gas                    |
| Huerfanito Bentonite          | 3204'             | 3666'                | gas                    |
| Chacra                        | 3666'             | 4364'                |                        |
| Massive Cliff House           | 4364'             | 4448'                | gas                    |
| Menefee                       | 4448'             | 5100'                | gas                    |
| Massive Point Lookout         | 5100'             | 5303'                | gas                    |
| Mancos Shale                  | 5303'             | 6156'                |                        |
| Gallup                        | 6156'             | 7021'                | gas                    |
| Greenhorn                     | 7021'             | 7083'                | gas                    |
| Dakota                        | 7083'             |                      | gas                    |
| TD                            | 7614'             |                      |                        |

### **Logging Program:**

Mud Logs/Coring/DST -  
Mud logs - 4300' to TD.  
Coring - none  
DST - none  
Electric logs - DIL/SP/GR; Density/Neut/GR; Microlog-GR;

### **Mud Program:**

| <u>Interval</u> | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|-----------------|-------------|---------------|-------------|-------------------|
| 0- 320'         | Spud        | 8.4-8.9       | 40-50       | no control        |
| 320-7614'       | LSND        | 8.4-9.0       | 40-60       | no control        |

Pit levels will be visually monitored to detect gain or loss of fluid control.

### **Casing Program:**

| <u>Hole Size</u> | <u>Depth Interval</u> | <u>Csg. Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|------------------|------------|--------------|
| 12 1/4"          | 0' - 320'             | 8 5/8"           | 23.0#      | M-50         |
| 7 7/8"           | 0' - 7614'            | 4 1/2"           | 10.5#      | J-55         |

### **Tubing Program:**

0' - 7614'      2 3/8"      4.7#      J-55 EUE

