

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-080673<br>Unit Reporting Number<br>DK-8910019540<br>MV-891001954A                                            |
| 1b. Type of Well<br>GAS                                                                                 | 6. If Indian, All. or Tribe                                                                                                        |
| 2. Operator<br><b>BURLINGTON RESOURCES</b> Oil & Gas Company                                            | Unit Agreement Name<br>San Juan 27-4 Unit                                                                                          |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br>(505) 326-9700               | 8. Farm or Lease Name<br>San Juan 27-4 Unit<br>9. Well Number<br>42M                                                               |
| 4. Location of Well<br>2405' FNL, 475' FWL<br>Latitude 36° 35.3, Longitude 107° 16.9                    | 10. Field, Pool, Wildcat<br>Blanco MV/Basin DK<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>E Sec. 8, T-27-N, R-4-W<br>API # 30-039-26377 |
| 14. Distance in Miles from Nearest Town<br>17 miles from Gobernador                                     | 12. County<br>Rio Arriba<br>13. State<br>NM                                                                                        |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>475'                           |                                                                                                                                    |
| 16. Acres in Lease                                                                                      | 17. Acres Assigned to Well<br>320 W/2                                                                                              |
| 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease<br>1600' |                                                                                                                                    |
| 19. Proposed Depth<br>8093' -                                                                           | 20. Rotary or Cable Tools<br>Rotary                                                                                                |
| 21. Elevations (DF, FT, GR, Etc.)<br>6796' GR                                                           | 22. Approx. Date Work will Start                                                                                                   |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                               |                                                                                                                                    |
| 24. Authorized by: <i>[Signature]</i><br>Regulatory/Compliance Administrator                            | Date<br>2-19-00                                                                                                                    |

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 6/20/00  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 6/20/00

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.

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District I  
PO Box 1999, Aztec, NM 88241-1999

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form O-10  
Revised February 21, 199

District II  
PO Box 577, Aztec, NM 88241-0777

OIL CONSERVATION DIVISION

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

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

PO Box 2038  
Santa Fe, NM 87504-2038

District IV  
PO Box 2038, Santa Fe, NM 87504-2038

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                   |         |                                        |       |                               |               |                  |               |                |            |
|---------------------------------------------------|---------|----------------------------------------|-------|-------------------------------|---------------|------------------|---------------|----------------|------------|
| API Number                                        |         | Pool Code                              |       | Pool Name                     |               |                  |               |                |            |
| 30-039-26377                                      |         | 72319/71599                            |       | Blanco Mesaverde/Basin Dakota |               |                  |               |                |            |
| Property Code                                     |         | Property Name                          |       | Well Number                   |               |                  |               |                |            |
| 7452                                              |         | SAN JUAN 27-4 UNIT                     |       | 42M                           |               |                  |               |                |            |
| OSRID No                                          |         | Operator Name                          |       | Elevation                     |               |                  |               |                |            |
| 14538                                             |         | BURLINGTON RESOURCES OIL & GAS COMPANY |       | 5796'                         |               |                  |               |                |            |
| 10 Surface Location                               |         |                                        |       |                               |               |                  |               |                |            |
| UL or Lot No                                      | Section | Township                               | Range | Lot 10n                       | Feet from the | North/South line | Feet from the | East/West line | County     |
| E                                                 | 8       | 27N                                    | 4W    |                               | 2405          | NORTH            | 475           | WEST           | RIO ARriba |
| 11 Bottom Hole Location If Different From Surface |         |                                        |       |                               |               |                  |               |                |            |
| UL or Lot No                                      | Section | Township                               | Range | Lot 10n                       | Feet from the | North/South line | Feet from the | East/West line | County     |
|                                                   |         |                                        |       |                               |               |                  |               |                |            |
| 12 Dedicated Acres                                |         | 13 Joint or Infill                     |       | 14 Consolidation Code         |               | 15 Order No.     |               |                |            |
| W/320                                             |         |                                        |       |                               |               |                  |               |                |            |

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

|          |  |          |  |                                                                                                                                                                                                               |  |
|----------|--|----------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 16       |  | 5250.96' |  | 17 OPERATOR CERTIFICATION                                                                                                                                                                                     |  |
| 2405'    |  |          |  | I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief                                                                                            |  |
| 475'     |  | 8        |  | Signature<br>Peggy Cole                                                                                                                                                                                       |  |
| 5280.00' |  | 5255.24' |  | Printed Name<br>Regulatory Administrator                                                                                                                                                                      |  |
|          |  |          |  | Title<br>2-19-00                                                                                                                                                                                              |  |
|          |  |          |  | Date                                                                                                                                                                                                          |  |
|          |  |          |  | 18 SURVEYOR CERTIFICATION                                                                                                                                                                                     |  |
|          |  |          |  | 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. |  |
|          |  |          |  | NOVEMBER 19, 1999                                                                                                                                                                                             |  |
|          |  |          |  | Date of Survey                                                                                                                                                                                                |  |
|          |  |          |  | Signature and Seal                                                                                                                                                                                            |  |
|          |  |          |  | NEALE C. EDWARDS<br>NEW MEXICO<br>6857<br>REGISTERED PROFESSIONAL SURVEYOR                                                                                                                                    |  |
|          |  |          |  | Certificate No. 6857                                                                                                                                                                                          |  |

## OPERATIONS PLAN

**Well Name:** San Juan 27-4 Unit #42M  
**Location:** 2405' FNL, 475' FWL, Sec 8, T-27-N, R-4-W  
Rio Arriba County, NM  
Latitude 36° 35.3, Longitude 107° 16.9  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6796' GL

| <u>Formation Tops:</u> | <u>Top</u>   | <u>Bottom</u> | <u>Contents</u> |
|------------------------|--------------|---------------|-----------------|
| Surface                | San Jose     | 3075'         |                 |
| Ojo Alamo              | 3075'        | 3229'         | aquifer         |
| Kirtland               | 3229'        | 3323'         | gas             |
| Fruitland              | 3323'        | 3657'         | gas             |
| Pictured Cliffs        | 3657'        | 3749'         | gas             |
| Lewis                  | 3749'        | 4218'         | gas             |
| <b>Intermediate TD</b> | <b>3849'</b> |               |                 |
| Mesa Verde             | 4218'        | 4623'         | gas             |
| Chacra                 | 4623'        | 5415'         | gas             |
| Massive Cliff House    | 5415'        | 5475'         | gas             |
| Menefee                | 5475'        | 5808'         | gas             |
| Massive Point Lookout  | 5808'        | 6354'         | gas             |
| Mancos                 | 6354'        | 6985'         | gas             |
| Gallup                 | 6985'        | 7763'         | gas             |
| Greenhorn              | 7763'        | 7828'         | gas             |
| Graneros               | 7828'        | 7868'         | gas             |
| Dakota                 | 7868'        |               | gas             |
| <b>TD</b>              | <b>8093'</b> |               |                 |

### Logging Program:

Cased hole - CBL-CCL-GR - TD to surface  
Cores - none

### Mud Program:

| <u>Interval</u> | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|-----------------|-------------|---------------|-------------|-------------------|
| 0- 200'         | Spud        | 8.4-9.0       | 40-50       | no control        |
| 200- 3849'      | LSND        | 8.4-9.0       | 30-60       | no control        |
| 3849- 8093'     | Airt/N2     | n/a           | n/a         | n/a               |

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

### Casing Program (as listed, the equivalent, or better):

| <u>Hole Size</u> | <u>Depth Interval</u> | <u>Csg. Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|------------------|------------|--------------|
| 12 1/4"          | 0' - 200'             | 9 5/8"           | 32.3#      | WC-50        |
| 8 3/4"           | 0' - 3849'            | 7"               | 20.0#      | J-55         |
| 6 1/4"           | 3749' - 8093'         | 4 1/2"           | 10.5#      | K-55         |

### Tubing Program:

0' -8093'      2 3/8"      4.7#      J-55

### BOP Specifications, Wellhead and Tests:

#### Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).  
After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

#### Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).  
After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 27-4 UNIT #42M

2405' FNL & 475' FWL, SECTION 8, T27N, R4W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION  
SWNW SECTION 8, T27N, R4W

