

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                                                                               | <b>RECEIVED</b><br>FEB 24 1997<br><b>OIL CON. DIV.</b><br>DIST. 3 | 5. Lease Number<br>SF-079520<br>Unit Reporting Number<br>8910000949A-DK<br>89100009490-MV                                                                      |
| 1b. Type of Well<br>GAS                                                                                 |                                                                   | 6. If Indian, All. or Tribe                                                                                                                                    |
| 2. Operator<br><b>BURLINGTON RESOURCES</b><br>14538<br>Oil & Gas Company                                |                                                                   | 7. Unit Agreement Name<br>San Juan 28-5 Unit                                                                                                                   |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br>(505) 326-9700               |                                                                   | 8. Farm or Lease Name<br>7460 San Juan 28-5 Unit<br>9. Well Number<br>44M                                                                                      |
| 4. Location of Well<br>1655' FSL, 1040' FEL<br><br>Latitude 36° 37' 46", Longitude 107° 20' 26"         |                                                                   | 10. Field, Pool, Wildcat<br>72319 Blanco Mesa Verde/<br>71599 Basin Dakota<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>1 Sec 27, T-28-N, R-5-W<br>API # 30-039-25660 |
| 14. Distance in Miles from Nearest Town<br>5 miles to Gobernador                                        | 12. County<br>Rio Arriba                                          | 13. State<br>NM                                                                                                                                                |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1040'                          | 17. Acres Assigned to Well<br>320 S/2<br>320 S/2                  |                                                                                                                                                                |
| 16. Acres in Lease                                                                                      |                                                                   |                                                                                                                                                                |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>2100' | 20. Rotary or Cable Tools<br>Rotary                               |                                                                                                                                                                |
| 19. Proposed Depth<br>8040'                                                                             | 21. Elevations (DF, FT, GR, Etc.)<br>6730' GR                     |                                                                                                                                                                |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                               | 22. Approx. Date Work will Start                                  |                                                                                                                                                                |
| 24. Authorized by: <u><i>Regan Bradford</i></u><br>Regulatory/Compliance Administrator                  | Date <u>1-7-97</u>                                                |                                                                                                                                                                |

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

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

APPROVAL DATE

FEB 21 1997

APPROVED BY

/s/ Duane W. Spencer

TITLE

DATE FEB 21 1997

Archaeological Report to be submitted

Threatened and Endangered Species Report submitted by Ecosphere dated December 1996

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

NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos 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>30-039-25640 | Pool Code<br>72319/71599                                | Pool Name<br>Blanco Mesaverde/Basin Dakota |
| Property Code<br>7460      | Property Name<br>San Juan 28-5 Unit                     | Well Number<br>44M                         |
| GRID No.<br>14538          | Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY | Elevation<br>6730'                         |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| I             | 27      | 28-N     | 5-W   |         | 1655          | South            | 1040          | East           | R.A.   |

<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>14-S/320<br>14-S/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

|          |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16       | 5291.88'                                            | 17 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>Signature<br>Peggy Bradfield<br>Printed Name<br>Regulatory Administrator<br>Title<br>1-7-97<br>Date                                                                                                                                      |
| 5280.00' | RECEIVED<br>FEB 24 1997<br>OIL CON. DIV.<br>DIST. 3 | 18 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>11/08/96<br>Date of Survey<br>Signature and Seal of Professional Surveyor<br>NEALE C. EDWARDS<br>NEW MEXICO<br>6857<br>6857<br>Certificate Number |
| 5280.00' | 27<br>SF-079520<br>5280.00'                         |                                                                                                                                                                                                                                                                                                                                                                                                 |

**OPERATIONS PLAN**

**Well Name:** San Juan 28-5 Unit #44M  
**Location:** 1655'FSL, 1040'FEL, Sec 27, T-23-N, R-5-W  
 Rio Arriba County, NM  
 Latitude 36° 37' 46", Longitude 107° 20' 26"  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6730'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          | 2921'                |                        |
| Ojo Alamo                     | 2921'             | 3206'                | aquifer                |
| Fruitland                     | 3206'             | 3591'                | gas                    |
| Pictured Cliffs               | 3591'             | 3701'                | gas                    |
| Lewis                         | 3701'             | 4191'                | gas                    |
| <b>Intermediate TD</b>        | <b>3751'</b>      |                      |                        |
| Mesa Verde                    | 4191'             | 4551'                | gas                    |
| Chacra                        | 4551'             | 5341'                |                        |
| Massive Cliff House           | 5341'             | 5456'                | gas                    |
| Menefee                       | 5456'             | 5751'                | gas                    |
| Massive Point Lookout         | 5751'             | 6941'                | gas                    |
| Gallup                        | 6941'             | 7691'                | gas                    |
| Greenhorn                     | 7691'             | 7799'                | gas                    |
| Graneros                      | 7799'             | 7895'                | gas                    |
| Dakota                        | 7895'             |                      | gas                    |
| <b>TD (4 1/2"liner)</b>       | <b>8040'</b>      |                      |                        |

**Logging Program:**

Cased hole - CBL - TD to 200' above TOC, GR/CNL across MV/Dk

**Mud Program:**

| <b><u>Interval</u></b> | <b><u>Type</u></b> | <b><u>Weight</u></b> | <b><u>Vis.</u></b> | <b><u>Fluid Loss</u></b> |
|------------------------|--------------------|----------------------|--------------------|--------------------------|
| 0- 200'                | Spud               | 8.4-9.0              | 40-50              | no control               |
| 200-3751'              | LSND               | 8.4-9.0              | 30-60              | no control               |
| 3751-8040'             | Gas                | n/a                  | n/a                | n/a                      |

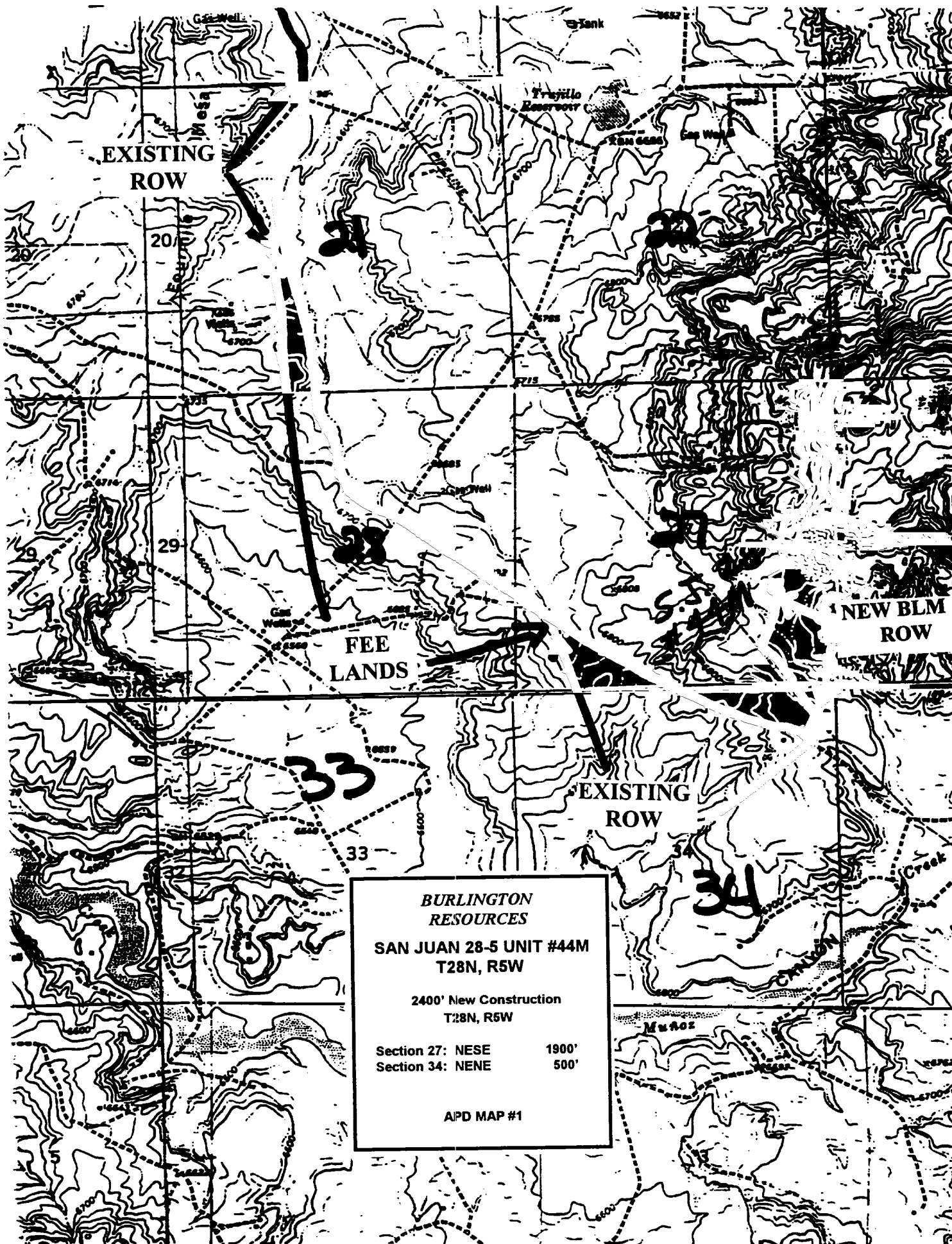
Pit levels will be visually monitored to detect gain or loss of fluid control.

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

| <b><u>Hole Size</u></b> | <b><u>Depth Interval</u></b> | <b><u>Csg.Size</u></b> | <b><u>Wt.</u></b> | <b><u>Grade</u></b> |
|-------------------------|------------------------------|------------------------|-------------------|---------------------|
| 12 1/4"                 | 0' - 200'                    | 9 5/8"                 | 32.3#             | H-40                |
| 8 3/4"                  | 0' - 3751'                   | 7"                     | 20.0#             | J-55                |
| 6 1/4"                  | 3651' - 6855'                | 4 1/2"                 | 10.5#             | K-55                |
| 6 1/4"                  | 6855' - 8040'                | 4 1/2"                 | 11.6#             | K-55                |

**Tubing Program:**

|            |        |           |
|------------|--------|-----------|
| 0' - 8040' | 2 3/8" | 4.70# EUE |
|------------|--------|-----------|



EXISTING  
ROW

NEW BLM  
ROW

FEE  
LANDS

EXISTING  
ROW

BURLINGTON  
RESOURCES  
SAN JUAN 28-5 UNIT #44M  
T28N, R5W

2400' New Construction  
T28N, R5W

Section 27: NESE 1900'  
Section 34: NENE 500'

APD MAP #1