

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>0705-079492A<br>Unit Reporting Number<br>7454, NM                                                                         |
| 1b. Type of Well<br>GAS                                                                                 | 6. If Indian, All. or Tribe                                                                                                                  |
| 2. Operator<br><b>BURLINGTON RESOURCES</b><br>14538 Oil & Gas Company                                   | 7. Unit Agreement Name<br>San Juan 27-5 Unit<br>7454                                                                                         |
| 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 27-5 Unit<br>9. Well Number<br>107M                                                                        |
| 4. Location of Well<br>790' FSL, 790' FEL<br>Latitude 36° 34.1, Longitude 107° 18.2                     | 10. Field, Pool, Wildcat<br>72319 Blanco MV/Basin Dk 71599<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>Sec 13, T-27-N, R-5-W<br>API # 30-039-25930 |
| 14. Distance in Miles from Nearest Town<br>9 miles to Gobernador                                        | 12. County<br>RA<br>13. State<br>NM                                                                                                          |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>790'                           | 17. Acres Assigned to Well<br>6/320 5/320                                                                                                    |
| 16. Acres in Lease                                                                                      |                                                                                                                                              |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>1800' |                                                                                                                                              |
| 19. Proposed Depth<br>7860'                                                                             | 20. Rotary or Cable Tools<br>Rotary                                                                                                          |
| 21. Elevations (DF, FT, GR, Etc.)<br>6590' GR                                                           | 22. Approx. Date Work will Start                                                                                                             |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                               | DRILLING OPERATIONS AUTHORIZED ARE<br>SUBJECT TO COMPLIANCE WITH ATTACHED<br>"GENERAL REQUIREMENTS"                                          |
| 24. Authorized by: <u>Wesley Shaakheid</u><br>Regulatory/Compliance Administrator                       | 5-9-98<br>Date                                                                                                                               |

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

APPROVAL DATE

AUG 04 1998

APPROVED BY

Joe Hewitt

TITLE

Acting Team Lead

DATE

AUG - 6 1998

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.

OK @

NMOC

District I  
PO Box 1930, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form  
Revised February 2

District II  
PO Drawer 30, Artesia, NM 88211-0713

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

Submit to Appropriate District  
State Lease - 1  
Fee Lease - 3

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

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

☐ AMENDED RE

070 FARMINGTON, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| API Number    | Pool Code                              | Pool Name                     |
| 30-039-25930  | 72319-71599                            | Blanco Mesaverde/Basin Dakota |
| Property Code | Property Name                          | Well Number                   |
| 7454          | SAN JUAN 27-5 UNIT                     | 107M                          |
| GRID No.      | Operator Name                          | Elevation                     |
| 14538         | BURLINGTON RESOURCES OIL & GAS COMPANY | 6590                          |

10 Surface Location

|               |         |          |       |         |               |                  |               |                |      |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------|
| UL or lot no. | Section | Township | Range | Lot 10n | Feet from the | North/South line | Feet from the | East/West line | Col. |
| P             | 13      | 27N      | 5W    |         | 790           | SOUTH            | 790           | EAST           | ARR  |

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 | Col. |
|               |         |          |       |         |               |                  |               |                |      |

|                      |                 |                    |           |
|----------------------|-----------------|--------------------|-----------|
| Dedicated Acres      | Joint or Infill | Consolidation Code | Order No. |
| MV-8/320<br>DK-S/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

|                                                    |              |                                                                                                                                                                                |
|----------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15                                                 | 5331.48      | 17 OPERATOR CERTIFICATION                                                                                                                                                      |
| 2628.12                                            | 91           | I hereby certify that the information contained is true and complete to the best of my knowledge &                                                                             |
| RECEIVED<br>AUG 7 1998<br>OIL CON. DIV.<br>DIST. 3 | NMSF-079492A | Signature<br>Peggy Bradfield<br>Printed Name<br>Regulatory Administrator<br>Title<br>5-9-98<br>Date                                                                            |
| 13                                                 | 2783.88      | 18 SURVEYOR CERTIFICATION                                                                                                                                                      |
| 107                                                |              | I hereby certify that the well location shown or was plotted from field notes of actual survey or under my supervision, and that the same is correct to the best of my belief. |
| 2628.12                                            | FEE          | FEBRUARY 10, 1998<br>Date of Survey                                                                                                                                            |
| 2951.52                                            | NMSF-079492A | Signature and Seal of Professional Surveyor<br>NEALE C. EDWARDS<br>NEW MEXICO<br>8857<br>65374<br>Certificate Number                                                           |
| 2647.92                                            | 2690.82      |                                                                                                                                                                                |
|                                                    | 790          |                                                                                                                                                                                |

## OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #107M  
Location: 790' FSL, 790' FEL Sec 13, T-27-N, R-5-W  
Rio Arriba County, NM  
Latitude 36° 34.1, Longitude 107° 18.2  
Formation: Blanco Mesa Verde/Basin Dakota  
Elevation: 6590' GL

| <u>Formation Tops:</u> | <u>Top</u> | <u>Bottom</u> | <u>Contents</u> |
|------------------------|------------|---------------|-----------------|
| Surface                | San Jose   | 2819'         |                 |
| Ojo Alamo              | 2819'      | 2961'         | aquifer         |
| Kirtland               | 2961'      | 3091'         |                 |
| Fruitland              | 3091'      | 3409'         | gas             |
| Pictured Cliffs        | 3409'      | 3606'         | gas             |
| Lewis                  | 3606'      | 3917'         | gas             |
| Intermediate TD        | 3706'      |               |                 |
| Huerfanito Bentonite   | 3917'      | 3987'         | gas             |
| Chacra                 | 3987'      | 5134'         |                 |
| Massive Cliff House    | 5134'      | 5208'         | gas             |
| Menefee                | 5208'      | 5548'         | gas             |
| Massive Point Lookout  | 5548'      | 6077'         | gas             |
| Mancos Shale           | 6077'      | 6532'         |                 |
| Gallup                 | 6532'      | 7515'         | gas             |
| Greenhorn              | 7515'      | 7602'         | gas             |
| Dakota                 | 7602'      |               | gas             |
| TD (4 1/2" liner)      | 7860'      |               |                 |

### Logging Program:

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

### 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        |
| 200-3706'       | LSND        | 8.4-9.0       | 30-60       | no control        |
| 3706-7860'      | Gas/Air     | 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>Csq. Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|------------------|------------|--------------|
| 12 1/4"          | 0' - 200'             | 9 5/8"           | 32.3#      | WC-50        |
| 8 3/4"           | 0' - 3706'            | 7"               | 20.0#      | J-55         |
| 6 1/4"           | 3606' - 7860'         | 4 1/2"           | 10.5#      | K-55         |

### Tubing Program:

0' - 7860'      2 3/8"      4.70# EUE

790' FSL & 790' FEL, SECTION 13, T27N, R5W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

150' NEW CONSTRUCTION  
SE/SE SECTION 13, T27N, R5W

