

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | |
|---|--|-----------------|
| 1a. Type of Work DRILL | 5. Lease Number SF-078596 Unit Reporting Number | |
| 1b. Type of Well GAS | 6. If Indian, All. or Tribe | |
| 2. Operator BURLINGTON RESOURCES Oil & Gas Company | 7. Unit Agreement Name | |
| 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 | 8. Farm or Lease Name Howell C 9. Well Number 1B | |
| 4. Location of Well 1740' FNL, 660' FEL Latitude 36° 45.4, Longitude 107° 37.2 | 10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) H Sec. 1, T-29-N, R-8-W AP# 30-045-29823 | |
| 14. Distance in Miles from Nearest Town 2 miles to Navajo City | 12. County San Juan | 13. State NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line 660' | 17. Acres Assigned to Well 321.05 | |
| 16. Acres in Lease | 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1200' | |
| 19. Proposed Depth 5585' | 20. Rotary or Cable Tools Rotary | |
| 21. Elevations (DF, FT, GR, Etc.) 6209' GR | 22. Approx. Date Work will Start | |
| 23. Proposed Casing and Cementing Program See Operations Plan attached | DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" | |
| 24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Administrator | 1-18-99 Date | |

PERMIT NO. _____
APPROVED BY /S/ Duane W. Spencer

APPROVAL DATE JUN 02 1999
Team Lead, Petroleum Management
TITLE _____ DATE _____

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.

NMOCD

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

10 FEB - 9 11 9:31

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|-------------------------------------|--|---------------------|--------------------------------|
| *API Number 30-045- <u>29823</u> | | *Pool Code 72319 | *Pool Name Blanco Mesaverde |
| *Property Code 7120 | *Property Name HOWELL C | | *Well Number 1B |
| *GRID No. 14538 | *Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY | | *Elevation 6209' |

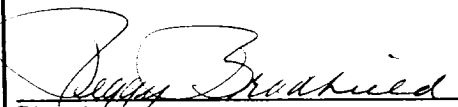
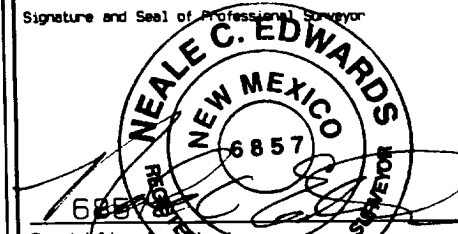
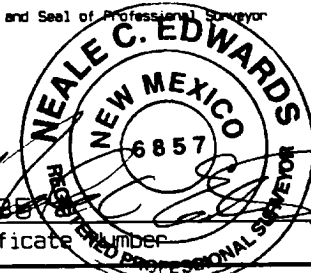
10 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| H | 1 | 29N | 8W | | 1740 | NORTH | 660 | EAST | SAN JUAN |

11 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 |
|--------------------------------|---------|--------------------|-------|-----------------------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| 12 Dedicated Acres E/321.05 | | 13 Joint or Infill | | 14 Consolidation Code | | 15 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

| | |
|--|--|
| <div>16</div> <div>2570.70'</div> <div>1364.22'</div> <div>1296.24'</div> <div>2592.48'</div> <div>5111.70'</div> <div>2667.06'</div> <div>1740'</div> <div>2624.16'</div> <div>660'</div> <div>2631.42'</div> <div>SF-078596</div> <div>1</div> <div>4</div> <div>3</div> <div>2</div> <div>1</div> <div>RECEIVED JUN - 4 1999 OIL CON. DIV. S.F.</div> | <div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div> Signature</div> <div>Peggy Bradfield Printed Name</div> <div>Regulatory Administrator Title</div> <div>1-18-99 Date</div> |
| | <div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>DECEMBER 8, 1998 Date of Survey</div> <div> Signature and Seal of Professional Surveyor</div> <div></div> <div>6857 Certificate Number</div> |

OPERATIONS PLAN

Well Name: Howell C #1B
Location: 1740' FNL, 660' FEL, Sec 1, T-29-N, R-8-W
 San Juan County, NM
 Latitude 36° 45.4, Longitude 107° 37.2
Formation: Blanco Mesa Verde
Elevation: 6209'GR

| <u>Formation Tops:</u> | <u>Top</u> | <u>Bottom</u> | <u>Contents</u> |
|------------------------|--------------|---------------|-----------------|
| Surface | San Jose | 1955' | |
| Ojo Alamo | 1955' | 2114' | |
| Kirtland | 2114' | 2606' | |
| Fruitland | 2606' | 3015' | |
| Pictured Cliffs | 3015' | 3160' | |
| Lewis | 3160' | 3754' | |
| Intermediate TD | 3260' | | |
| Mesa Verde | 3754' | 3976' | |
| Chacra | 3976' | 4742' | |
| Massive Cliff House | 4742' | 4840' | |
| Menefee | 4840' | 5185' | |
| Massive Point Lookout | 5185' | | |
| TD | 5585' | | |

Logging Program:

Cased hole logging - Gamma Ray, Neutron - surface to TD
 Coring/DST - none

Mud Program:

| <u>Interval</u> | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|-----------------|-------------|---------------|-------------|-------------------|
| 0- 320' | Spud | 8.4-9.0 | 40-50 | no control |
| 320-3260' | LSND | 8.4-9.0 | 30-60 | no control |
| 3260-5585' | 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):

| <u>Hole Size</u> | <u>Depth Interval</u> | <u>Csg. Size</u> | <u>Wt.</u> | <u>Grade</u> |
|------------------|-----------------------|------------------|------------|--------------|
| 12 1/4" | 0' - 320' | 9 5/8" | 32.3# | H-40 |
| 8 3/4" | 0' - 3260' | 7" | 20.0# | J-55 |
| 6 1/4" | 3160' - 5585' | 4 1/2" | 10.5# | J-55 |

Tubing Program:

| | | |
|------------|--------|-----------|
| 0' - 5585' | 2 3/8" | 4.70# EUE |
|------------|--------|-----------|

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.

BURLINGTON RESOURCES OIL & GAS COMPANY HOWELL C #1B

1740' FNL & 660' FEL, SECTION 1, T29N, R8W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

2500' NEW BLM CONSTRUCTION
1700' NE/SE SECTION 1, T29N, R8W
800' SE/NE SECTION 1, T29N, R8W.

