

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-077974 Unit Reporting Number |
| 1b. Type of Well GAS | 6. If Indian, All. or Tribe |
| 2. Operator BURLINGTON RESOURCES 14538 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 122B Lodewick 9. Well Number 1R |
| 4. Location of Well 1640' FNL, 1025' FWL Latitude 36° 34.6, Longitude 107° 50.5 | 10. Field, Pool, Wildcat, <i>Sub her Ritz</i> 11200 Attec Pic.Cliffs 11. Sec., Twn, Rge, Mer. (NMPM) Sec 18, T-27-N, R-9-W API # 30-045-29535 |
| 14. Distance in Miles from Nearest Town 10 miles to Bloomfield | 12. County San Juan 13. State NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line 1025' | |
| 16. Acres in Lease | 17. Acres Assigned to Well 161.32 NW/4 |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1500' | |
| 19. Proposed Depth 2290 This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4. | 20. Rotary or Cable Tools Rotary |
| 21. Elevations (DF, FT, GR, Etc.) 6195' 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: <i>Duane W. Spencer</i> Regulatory/Compliance Administrator | <i>2/9/98</i> Date |

PERMIT NO. _____ APPROVAL DATE MAR 06 1998
APPROVED BY AS/ Duane W. Spencer TITLE _____ DATE MAR - 6 1998

Archaeological Report submitted
Threatened and Endangered Species Report submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

OK PFR #2
NMOCD

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

District II
PO Drawer 00, 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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|----------------------------|---|--------------------|---|
| API Number 30-045-24535 | | Pool Code 77200 | Pool Name Fulcher Kutz Pictured Cliffs |
| Property Code 7273 | Property Name LODEWICK | | Well Number 1R |
| GRID No. 14538 | Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY | | Elevation 6195' |

10 Surface Location


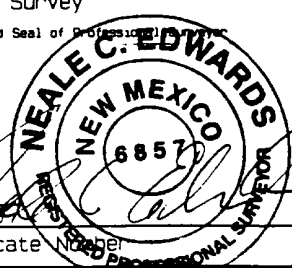
| | | | | | | | | | |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|--------------------|
| UL or lot no. E | Section 18 | Township 27N | Range 9W | Lot Idn | Feet from the 1640 | North/South line North | Feet from the 1025 | East/West line West | County 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 161.32 | 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

| | | | | | | | |
|----------|--|-----------|--|--|--|--|--|
| 1327.92' | | 1304.16' | | 2608.32' | | 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Bradfield Printed Name Regulatory Administrator Title 2/9/98 Date | |
| 1 | | SF-077974 | | RECEIVED MAR - 9 1998 OIL CON. DIV. DIST. 3 | | | 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. JANUARY 9, 1998 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number |
| 2572.02' | | | | 5239.08' | | | |
| 1025' | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 2642.64' | | | | | | | |
| 4 | | | | | | | |
| 1338.48' | | 1308.78' | | 2631.42' | | | |

OPERATIONS PLAN

Well Name: Lodewick #1R
Location: 1640' FNL, 1025' FWL Section 18, T-27-N, R-9-W
 San Juan County, New Mexico
 Latitude 36° 34.6', Longitude 107° 50.5'
Formation: Aztec Pictured Cliffs
Elevation: 6195' GL

| Formation: | Top | Bottom | Contents |
|-----------------|------------|--------|----------|
| Surface | Nacimiento | 1149' | |
| Ojo Alamo | 1149' | 1297' | aquifer |
| Kirtland | 1297' | 1976' | |
| Fruitland | 1870' | 2085' | |
| Upper Coal | 1965' | 2060' | gas |
| Basal Coal | 2060' | 2085' | gas |
| Pictured Cliffs | 2085' | | gas |
| Total Depth | 2290' | | |

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

| <u>Interval</u> | <u>Type</u> | <u>Weight</u> | <u>Vis.</u> | <u>Fluid Loss</u> |
|-----------------|-------------|---------------|-------------|-------------------|
| 0- 120' | Spud | 8.4-9.0 | 40-50 | no control |
| 120-2290' | LSND | 8.4-9.0 | 40-60 | no control |

Casing Program (as listed, 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 - 120' | 8 5/8" | 23.0# | M-50 |
| 6 1/4" | 0 - 2290' | 3 1/2" | 7.7# | WC-70 |

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1297'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1297'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

1640' FNL & 1025' FWL, SECTION 18, T27N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

BLM 700' NEW CONSTRUCTION
400' NWNW SECTION 18, T27N, R9W
300' SWNW SECTION 18, T27N, R9W

