UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
2004 NOV -6 AM 11: 33
070 Farmington, NM

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

5. Lease Number
NMSF-079383
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON RESOURCES Oil & Gas Company

NOV 2004 OIL CONS. DIV. DIST. 3

7. Unit Agreement Name
San Juan 30-6 Unit

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name
San Juan 30-6 Unit
9. Well Number
#99B

4. Location of Well
1550' FNL, 180' FWL
Latitude 36° 46.3287'N, Longitude 107° 33.9654'W

10. Field, Pool, Wildcat
Blanco Mesaverde/Basin Dakota
11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 34, T30N, R06W
API # 30-039- 27695

14. Distance in Miles from Nearest Town
33.5 miles to Intersection Hwy 64 & Hwy 550 in Bloomfield, NM

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
180'

16. Acres in Lease

17. Acres Assigned to Well
320 W/2 MV
320 W/2 DK

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
1365'

19. Proposed Depth
7694'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6329' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Joni Clark
Regulatory Specialist

3/8/04
Date

PERMIT NO.

APPROVAL DATE

APPROVED BY [signature] TITLE AFM DATE 11/15/04

Archaeological Report attached
Threatened and Endangered Species Report attached
HOLD C104 FOR Basin Dk NSL
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.

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

NMOCD

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

1625 N. French Dr., Hobbs, N.M. 88240

Energy, Minerals & Natural Resources Department

Revised August 15, 2000

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

# OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| [1] API Number | [2] Pool Code | [3] Pool Name |
|---|---|---|
| 30-039- 27695 | 72319/71599 | Blanco Mesaverde/Basin Dakota |

| [4] Property Code | [5] Property Name | [6] Well Number |
|---|---|---|
| 7469 | SAN JUAN 30-6 UNIT | 99B |

| [7] OGRID No. | [8] Operator Name | [9] Elevation |
|---|---|---|
| 14538 | BURLINGTON RESOURCES OIL AND GAS COMPANY LP | 6329' |

### [10] Surface Location

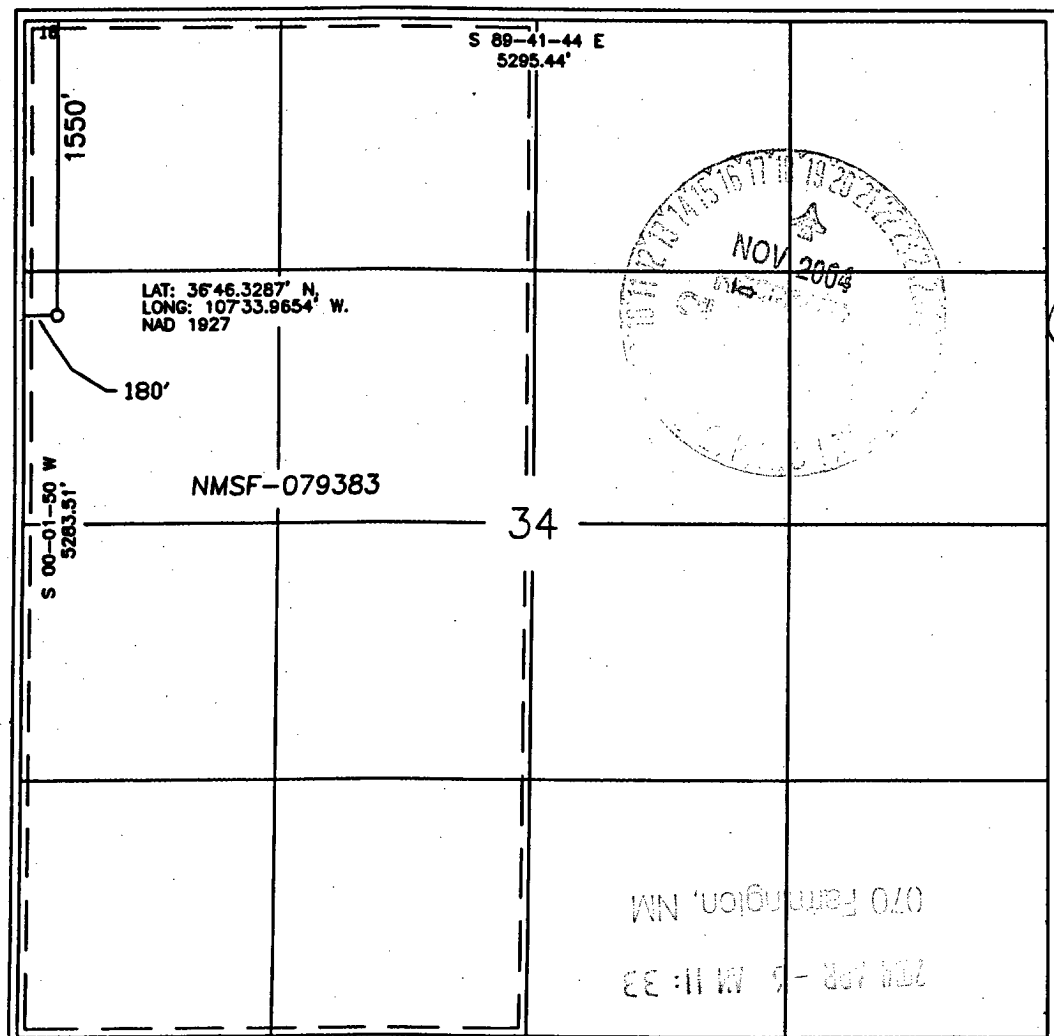
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| E | 34 | 30-N | 7-W | | 1550' | NORTH | 180' | WEST | RIO ARRIBA |

### [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 | [13] Joint or Infill | [14] Consolidation Code | [15] Order No. |
|---|---|---|---|
| MV W/320 DK 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




### [17] OPERATOR CERTIFICATION

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief*

Signature

Jonl Clark

Printed Name

Regulatory Specialist

Title

3-8-04

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.*

Date of Survey: 12-03

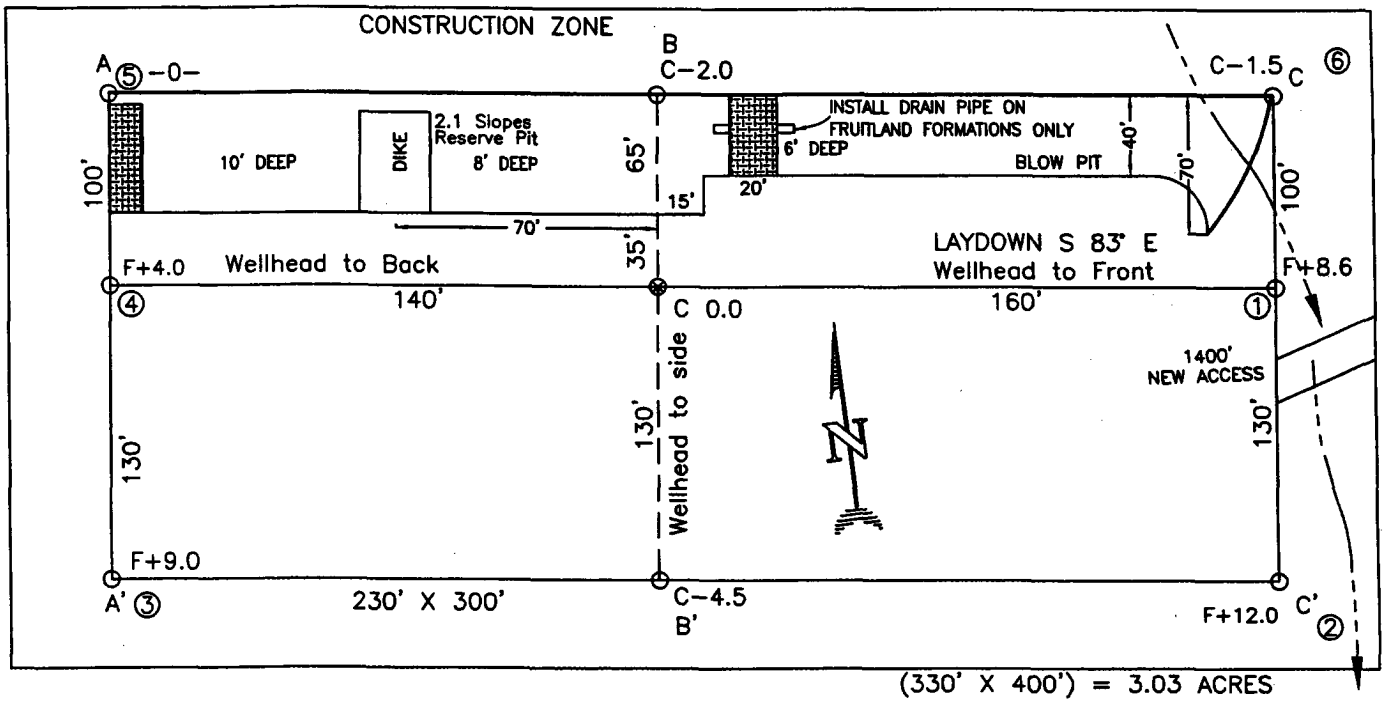
Signature and Seal of Professional Surveyor:

GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

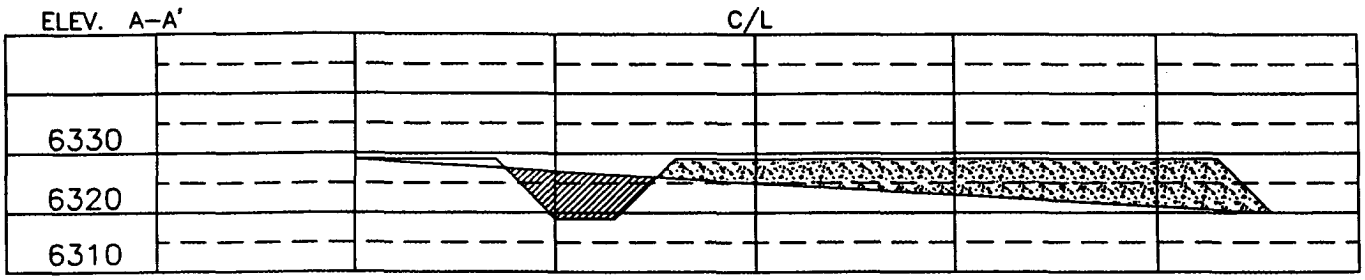
Certificate Number 15703

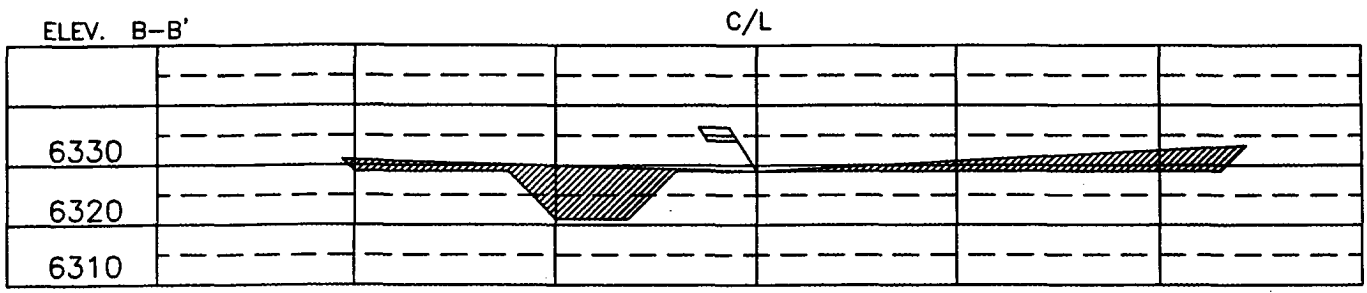
RECEIVED
070 Farmington, NM
2004 MAR -5 AM 11:33

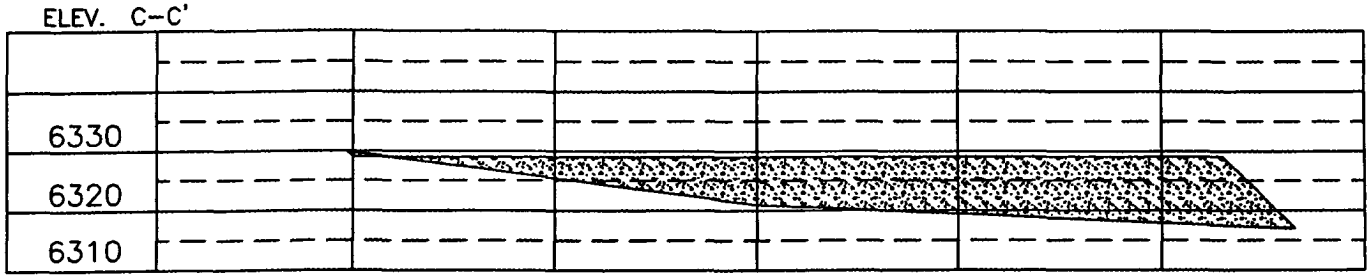
# BURLINGTON RESOURCES OIL & GAS COMPANY LP
# SAN JUAN 30-6 UNIT #99B, 1550' FNL & 180' FWL
# SECTION 34, T-30-N, R-7-W, NMPM, RIO ARRIBA COUNTY, NM
# GROUND ELEVATION: 6329', DATE: OCTOBER 28, 2003




RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.




NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUNG UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# OPERATIONS PLAN

***Well Name:*** San Juan 30-6 Unit # 99B
***Location:*** 1550'FNL, 180' FWL, Section 34, T-30-N, R-7-W
Rio Arriba County, New Mexico
Latitude 36° 46.33'N, Longitude 107° 33.97'W
***Formation:*** Blanco Mesa Verde/Basin Dakota
***Elevation:*** 6329'GL

| ***Formation Tops:*** | ***Top*** | ***Bottom*** | ***Contents*** |
|---|---|---|---|
| Surface | San Jose | 2146' | |
| Ojo Alamo | 2146' | 2356' | aquifer |
| Kirtland | 2356' | 2976' | gas |
| Fruitland | 2976' | 3211' | |
| Pictured Cliffs | 3211' | 3331' | gas |
| Lewis | 3331' | 3936' | gas |
| **Intermediate TD** | **3431'** | | |
| Huerfanito Bentonite | 3936' | 4216' | gas |
| Chacra | 4216' | 4751' | gas |
| UpperCliff House | 4751' | 4966' | |
| Massive Cliff House | 4966' | 5036' | |
| Menefee | 5036' | 5386' | gas |
| Point Lookout | 5386' | 5756' | gas |
| Mancos | 5756' | 6661' | gas |
| Gallup | 6661' | 7391' | gas |
| Greenhorn | 7391' | 7446' | gas |
| Graneros | 7446' | 7511' | gas |
| Dakota | 7511' | 7596' | gas |
| Upper Cubero | 7596' | 7626' | |
| Lower Cubero | 7626' | 7674' | |
| Oak Canyon | 7674' | | |
| **TD** | **7694'** | | |

***Logging Program:***
Mud Logs/Coring/DST -
Mud logs - none
Coring - none
DST - none
Open hole - none
Cased hole - Gamma Ray, CCL, CBL - surface to TD

***Mud Program:***

| Interval | Type | Weight | Vis. | Fluid Loss |
|---|---|---|---|---|
| 0- 120' | Spud MUD/Air/Air Mist | 8.4-9.0 | 40-50 | no control |
| 120- 3431' | LSND | 8.4-9.0 | 30-60 | no control |
| 3431- 7694' | Air/Air Mist/Nitrogen | n/a | n/a | n/a |

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

| Hole Size | Depth Interval | Csg.Size | Wt. | Grade |
|---|---|---|---|---|
| 12 1/4" | 0' - 120' | 9 5/8" | 32.3# | H-40 |
| 8 3/4" | 0' - 3431' | 7" | 20.0# | J-55 |
| 6 1/4" | 0' - 7694' | 4 1/2" | 10.5# | J-55 |

***Tubing Program:*** 0' - 7694' 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.

**Surface to Total Depth -**

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

**Completion Operations -**

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

**Wellhead -**

9 5/8" x 7" x 4 ½" x 2 3/8" x 2000 psi tree assembly.

**General -**

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

***Cementing:***

9 5/8" surface casing -

Pre-Set Drilled Cement with 24 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

9 5/8" surface casing conventionally drilled -

Cement with 88 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (113 cu.ft.-200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead with 302 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (767 cu ft- 50% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar set 300' above the top of the Fruitland. First stage: Lead w/22 sxs Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% sodium metascilicate, 0.4% fluid loss. Tail w/90 Type III cmt w/1%calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: Cmt w/280 sxs Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (767 cu ft-50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 2356'. Two turbolating centralizers at the base of the Ojo Alamo 2356'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -
Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 293 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (580 cu. ft.-30% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float collar stacked on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

***Special Drilling Operations (Air/Mist Drilling):***

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

***Additional Information:***

- The Mesa Verde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

| | |
|---|---|
| Fruitland Coal | 300 psi |
| Pictured Cliffs | 600 psi |
| Mesa Verde | 700 psi |
| Dakota | 2500 psi |

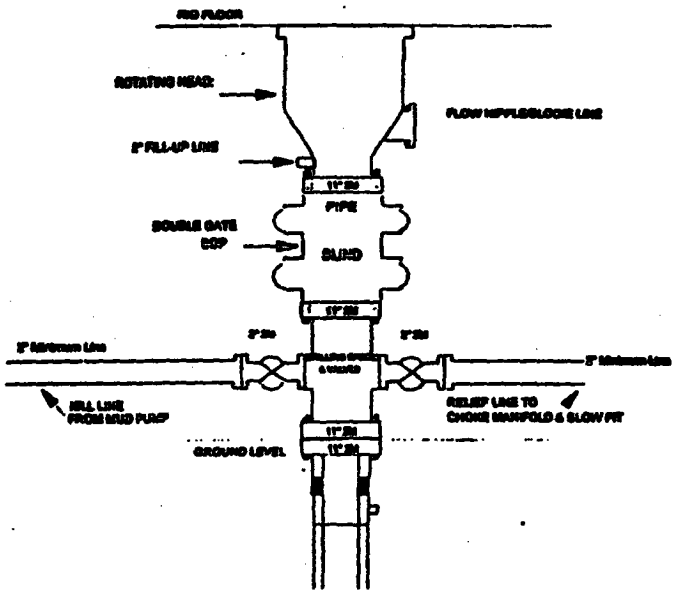
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 34 is dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

Sean Corrigan
Drilling Engineer

April 2, 2004
Date

## Burlington Resources

### Drilling Rig
### 2000 psi System



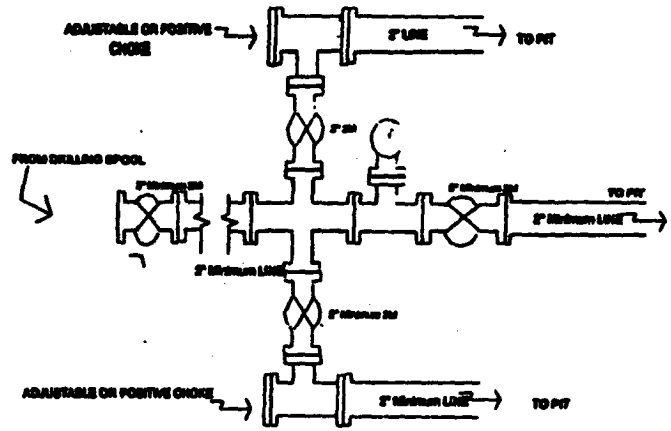

BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 2000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rotating head on top of ram preventers. All BOP equipment is 2,000 psi working pressure

Figure #1

4-20-01

## BURLINGTON RESOURCES

### Drilling Rig
### Choke Manifold Configuration
### 2000 psi System



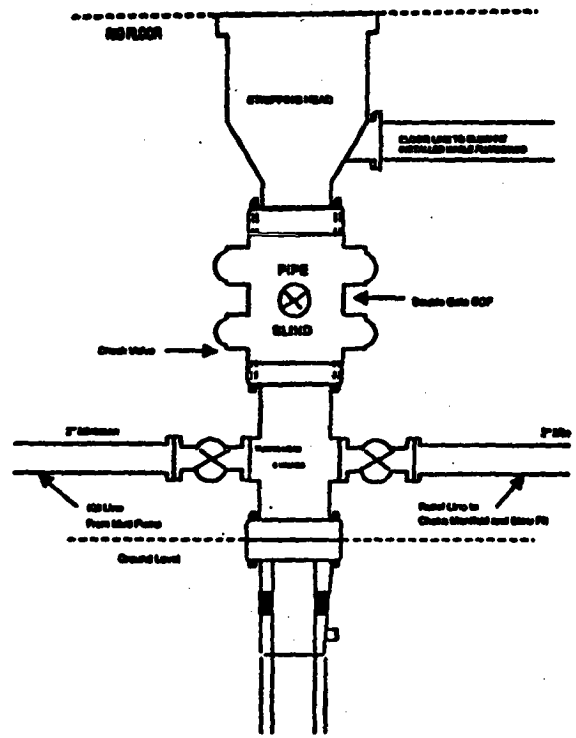

Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01

## BURLINGTON RESOURCES

### Completion/Workover Rig
### BOP Configuration
### 2,000 psi System




Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi stripping head.

Figure #2