

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 NMSF-077648 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Davis 9. Well Number 5018
4. Location of Well Unit E (SWNW), 1505' FNL & 760' FWL, Latitude 36° 54.9738'N Longitude 108° 04.2396'W	10. Field, Pool, Wildcat Basin FC / Glades FS 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T31N, R12W E API # 30-045-33506
14. Distance in Miles from Nearest Town	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 760'	
16. Acres in Lease	17. Acres Assigned to Well FC - 304.390 304.48 acres W/2 FS - 155.75 154.84 acres NW/4
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease Twinned with the Davis #1	
19. Proposed Depth 2955'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6213' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Patsy Chught</u> Sr. Regulatory Specialist	Date <u>1/4/06</u>

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 4/24/06

Archaeological Report attached

Threatened and Endangered Species Report attached

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 REGULATIONS

This action is subject to technical and
procedural review pursuant to 43 CFR 316
and appeal pursuant to 43 CFR 3165.4

NMOC D

DISTRICT I
1635 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
611 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

2006 JAN 9 AM 8 25

RECEIVED ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- <u>33506</u>	² Pool Code 71629 / 77410	³ Pool Name Basin Fruitland Coal / Glades Fruitland Sands
⁴ Property Code 18509	⁵ Property Name DAVIS	⁶ Well Number 501S
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6213'

¹⁰ Surface Location

UL or lot no. E	Section 11	Township 31-N	Range 12-W	Lot Idn <u>5</u>	Feet from the 1505'	North/South line NORTH	Feet from the 780'	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. E	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres <u>154.84</u> FS-155.75 acres NW/4 FC-304.390 acres W/2 <u>304.48</u>					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

16

LOT 4	S 89°-29'-35" E 2662.41'		LOT 3	LAT: 36°54.9738' N. LONG: 108°04.2396' W. NAD 1927		LOT 2	LOT 1
S 01°-50'-41" W 8669.96'		1505'	USA SF-077648				
LOT 5	LOT 6	11	LOT 7	LOT 8			
USA SF-077648			LOT 10		LOT 9		
LOT 12	LOT 11		LOT 15		LOT 16		
LOT 13	LOT 14						

¹⁷ OPERATOR CERTIFICATION

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

Patsy Clugston
Signature
Patsy Clugston
Printed Name
Sr. Regulatory Specialist
Title
12-13-05
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 12-8-05
Signature GLEN W. RUSSELL
GLEN W. RUSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR
Certificate Number 15703

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-045- 33506

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

NMSF-077648

7. Lease Name or Unit Agreement Name

Davis

8. Well Number

501S

9. OGRID Number

14538

10. Pool name or Wildcat

Basin FC / Glades FS

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter E : 1505 feet from the North line and 760 feet from the West lineSection 11 Township 31N Rng 12W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6213' GL

Pit or Below-grade Tank Application

☐ or Closure ☐Pit type New Drill

Depth to Groundwater

<100'

Distance from nearest fresh water well

>1000'

Distance from nearest surface water

>200'

<1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

OTHER:

New Drill Pit ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Sr. Regulatory Specialist

DATE

12/20/2005

Type or print name

Patsy Clugston

E-mail address:

pclugston@br-inc.com

Telephone No.

505-326-9518

For State Use Only

APPROVED BY

TITLE

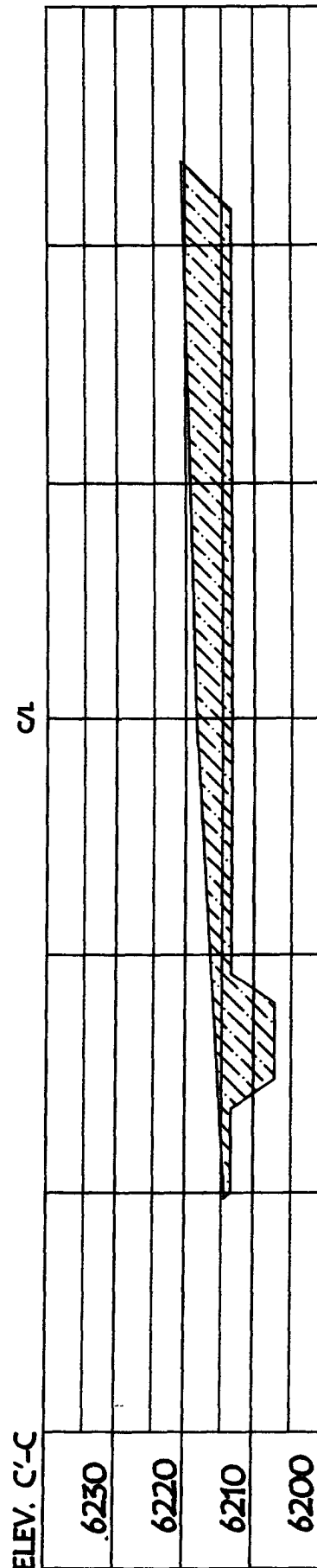
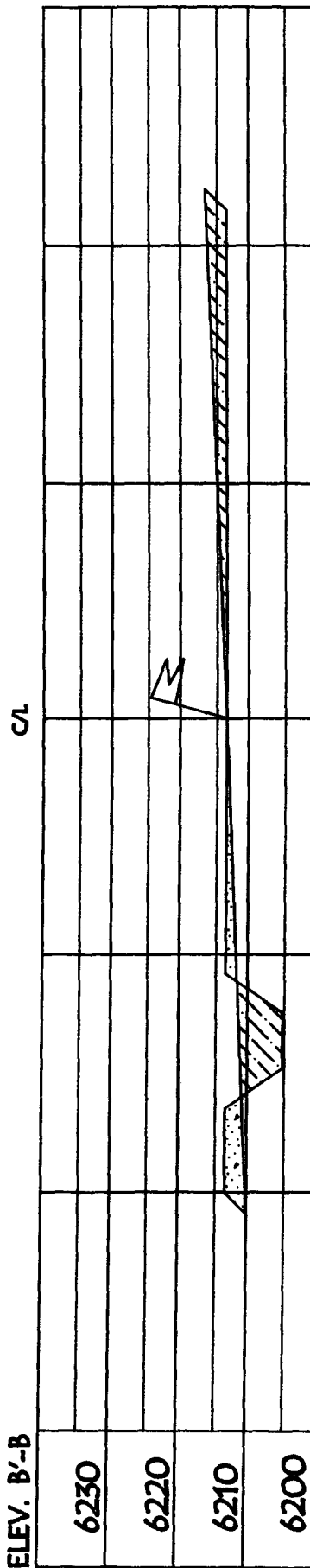
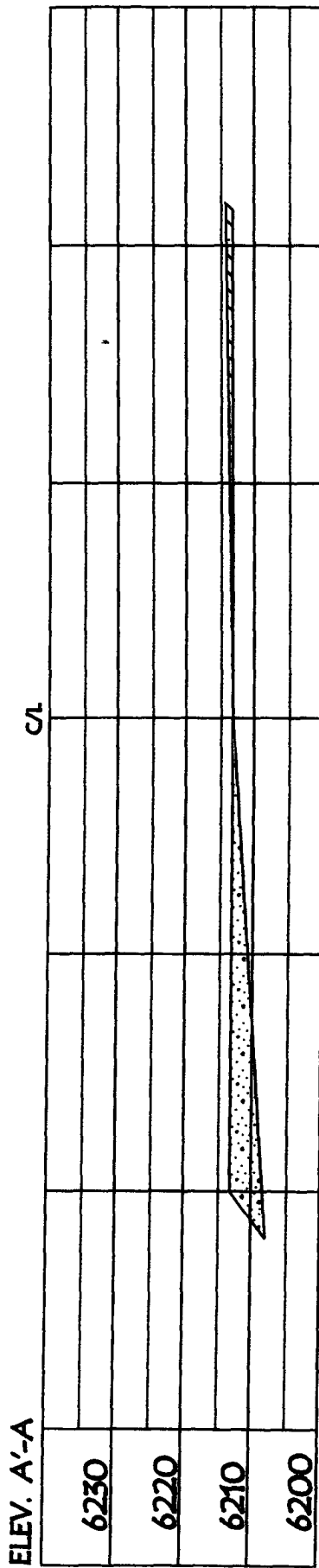
DEPUTY OIL & GAS INSPECTOR, DIST. (3)

DATE

APR 26 2006

Conditions of Approval (if any):

BURLINGTON RESOURCES OIL & GAS COMPANY LP
DAVIS 501S, 1505' FNL & 760' FWL
SECTION 11, T-31-N, R-12-W, NMPM, SAN JUAN COUNTY, NM
GROUND ELEVATION: 6213', DATE: DECEMBER 1, 2005



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND 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.

Directions from the Intersection of
Highway 170 & Highway 574 in La Plata, NM
to
Burlington Resources Oil & Gas Company LP
DAVIS #501S
1505' FNL & 760' FWL,
Section 11, T31N, R12W, N.M.P.M., San Juan County,
New Mexico

From the Intersection of Highway 170 & Highway 574
@ the Red School House

Go East on Hwy 574 for 6.5 miles
turn left (northeasterly) for 1.1 miles,
turn left (westerly) 100' to the west
side of the existing well location
from which the new well location is staked.

OPERATIONS PLAN

Well Name: Davis 501S
Location: Unit E (SWNW), 1505' FNL & 760' FWL, Sec. 11, T31N, R12W
 San Juan County, New Mexico
 Latitude 36° 54.9736'N Longitude 108° 04.2396' W
Formation: Basin Fruitland Coal
Elevation: 6213 GR

Formation:	Top	Bottom	Contents
Ojo Alamo	858'	899'	aquifer
Kirtland	899'	2252'	gas
T/Fruitland	2252'		gas
B/Fruitland Coal	2755'		gas
Pictured Cliffs	2755'		
Total Depth	2955'		

Logging Program: None

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis. Fluid Loss</u>
0- 120'	Spud/Air/Air Mist	8.4-8.9	40-50 no control
120-2955'	Non-dispersed	8.4-9.5	30-60 no control

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
8 $\frac{3}{4}$ "	0 - 120'	7"	20.0#	J-55
6 $\frac{1}{4}$ "	0 - 2955'	4 1/2"	10.5#	J/K-55

Tubing Program:

0 - 2955'	2 3/8"	4.7#	J-55
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Float Equipment: 7" surface casing - guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe and float collar on bottom. Centralizers run every third joint above shoe to the base of the Ojo Alamo @ 899'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 899'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 4 1/2" x 2 3/8" x 11" 2000 psi xmas tree assembly.

January 4, 2006

Cementing:

7" surface casing ^{1.121}Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.28 cu ft per sack yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

7" surface casing - Cement with 42 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (54 cu ft of slurry @ 1.28 yield). 200% excess, bring cement to surface. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.
WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

4 1/2" production casing - Cement with 155 sx (330 cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of ~~445~~ 437 cf - 50% excess to circulate to surface.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test ~~rams~~ ^{BOPE} to 600 psi/30 min.

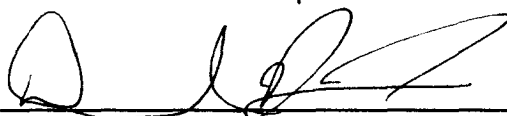
Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 1500 psi/30 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

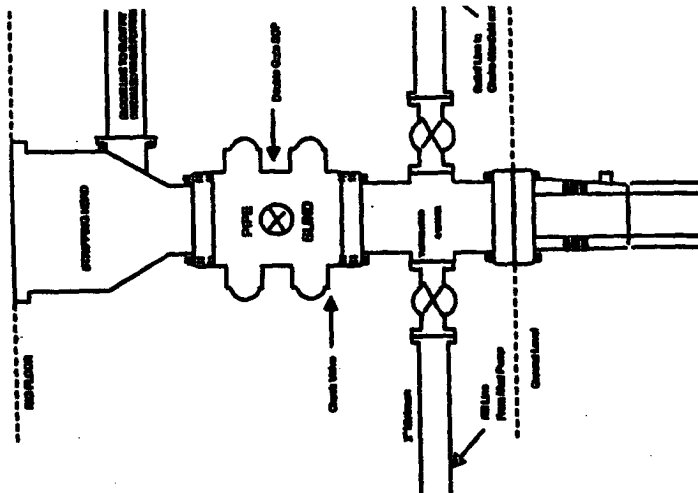
- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland Coal is 600 - 700 psi.
- * This gas is dedicated.
- * The west half of the section is dedicated to this well.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.


Drilling Engineer

1/5/06
Date

BURLINGTON RESOURCES

Completion/Worlcover Rig
BOP Configuration
3,000 psi System

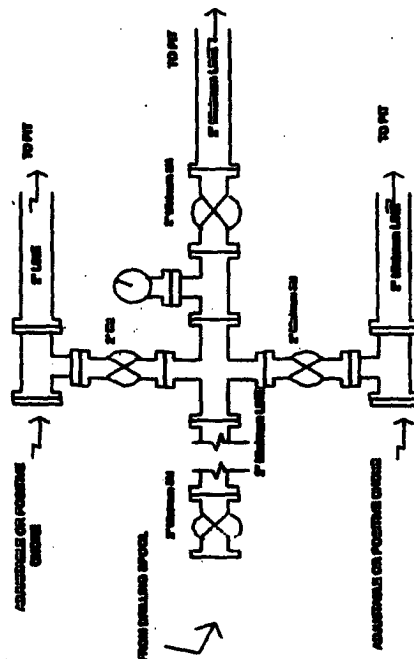


Minimum BOP Installation for all Completion/Worlcover Operations. 7-1/4" bore, 3000 psi minimum working pressure double gate BOP to be equipped with blind a pipe rams. A shearing head to be installed on the top the BOP. All BOP equipment is 3000 psi working pressure or greater, excluding 500 psi shearing head.

Figure #3

BURLINGTON RESOURCES

Drilling Rig
Choke Manifold Configuration
3000 psi System

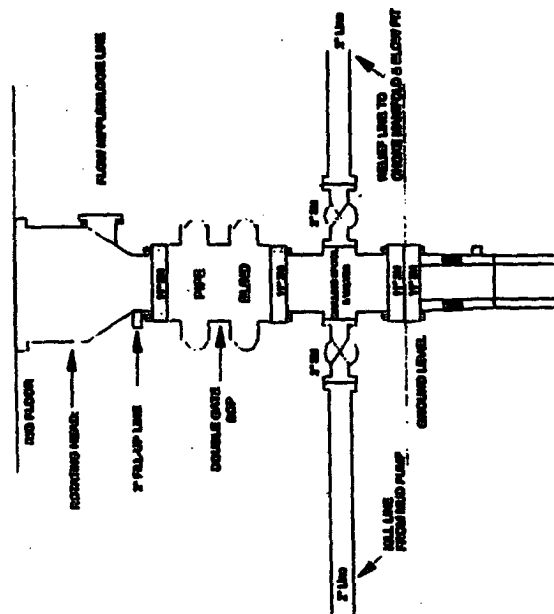


Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

Figure #2

Burlington Resources

Drilling Rig
3000 psi System



BOP Installation from Surface Casing Point to Total Depth. 1 1/4" Bore 3000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi shearing head on top of the BOP. All BOP equipment is 3,000 psi working pressure.

Figure #1