

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2006 JAN 12 PM 11 08

1a. Type of Work DRILL	5. Lease Number NMSF-078424 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> 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 San Juan 29-7 Unit 9. Well Number 197
4. Location of Well Unit A (NENE) 765 FNL & 8555' FEL,  Latitude 36° 42.1212'N Longitude 107° 34.1782'W	10. Field, Pool, Wildcat Basin FC / Blanco PC  11. Sec., Twn, Rge, Mer. (NMPM) Sec. 28, T29N, R07W API # 30-039-29745
14. Distance in Miles from Nearest Town	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 765'	
16. Acres in Lease	17. Acres Assigned to Well FC - 320 E/2 & PC - 160 NE/4
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease Twinned w/SJ 29-7 Unit #40	
19. Proposed Depth 3844'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6856' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Patsy Clugish</u> Sr. Regulatory Specialist	Date <u>1/10/06</u>

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY DJ Montoya TITLE AFM DATE 3/1/06

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.

Not an HPA FC Well

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

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

NMOCD

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

DISTRICT II  
1301 W. Grand Ave., Artesia, N.M. 88210

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

DISTRICT IV  
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

# OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RECEIVED

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-29745	<sup>2</sup> Pool Code 71629 / 72359	<sup>3</sup> Pool Name Basin Fruitland Coal / Blanco Pictured Cliffs
<sup>4</sup> Property Code 7465	<sup>5</sup> Property Name SAN JUAN 29-7 UNIT	<sup>6</sup> Well Number 197
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	<sup>9</sup> Elevation 6856'

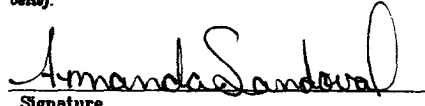
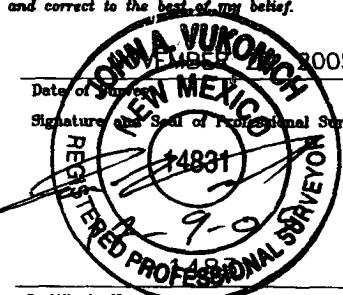
### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	29-N	7-W		765	NORTH	855	EAST	RIO ARRIBA

### <sup>11</sup> 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
<sup>12</sup> Dedicated Acres E2 320 FC; NE/4 PC - 160 acres					<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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	FD 2 1/2" BC U.S.G.L.O. 1913	N 89-38-39 W 2637.76' (C)	FD W.C. 2 1/2" BC U.S.G.L.O. 1913 62.27' SOUTH OF CORNER	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Amanda Sandoval Printed Name Regulatory Assistant II Title 12-14-05 Date
		LAT. 36°42.1212' N. (NAD 27) LONG. 107°34.1782 W. (NAD 27)	765' 855'	
		USA SF-078945	N 00-05-11 W 2640.89' (C)	
		USA SF-078424		
		28		
		USA SF-078945	FD 2 1/2" BC U.S.G.L.O. 1913	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 Signature and Seal of Registered Surveyor: Certificate Number

Submit 3 Copies To Appropriate District  
Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

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.

30-039-

29745

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

Federal Lease - SF-078424

7. Lease Name or Unit Agreement Name

San Juan 29-7 Unit

8. Well Number

#197

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal / S. Blanco PC

**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 A : 765' feet from the North line and 855' feet from the East line

Section 28 Township 29N Rng 7W NMPM County Rio Arriba

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

6856' 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

>1000'

Pit Liner Thickness:

n/a

mil

Below-Grade Tank:

Volume

bbbs;

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 ☐

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING/CEMENT JOB ☐

ALTERING CASING ☐

P AND A ☐

OTHER:

New Drill Pit

☒

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, Unlined:

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 and vent/flare pit will be an unlined 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 unlined, 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

*Patsy Clugston*

TITLE

Sr. Regulatory Specialist

DATE

1/5/2006

Type or print name  
For State Use Only

Patsy Clugston

E-mail address:

pclugston@br-inc.com

Telephone No.

505-326-9518

APPROVED BY

*[Signature]*

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. 00

DATE

MAR 06 2006

Conditions of Approval (if any):

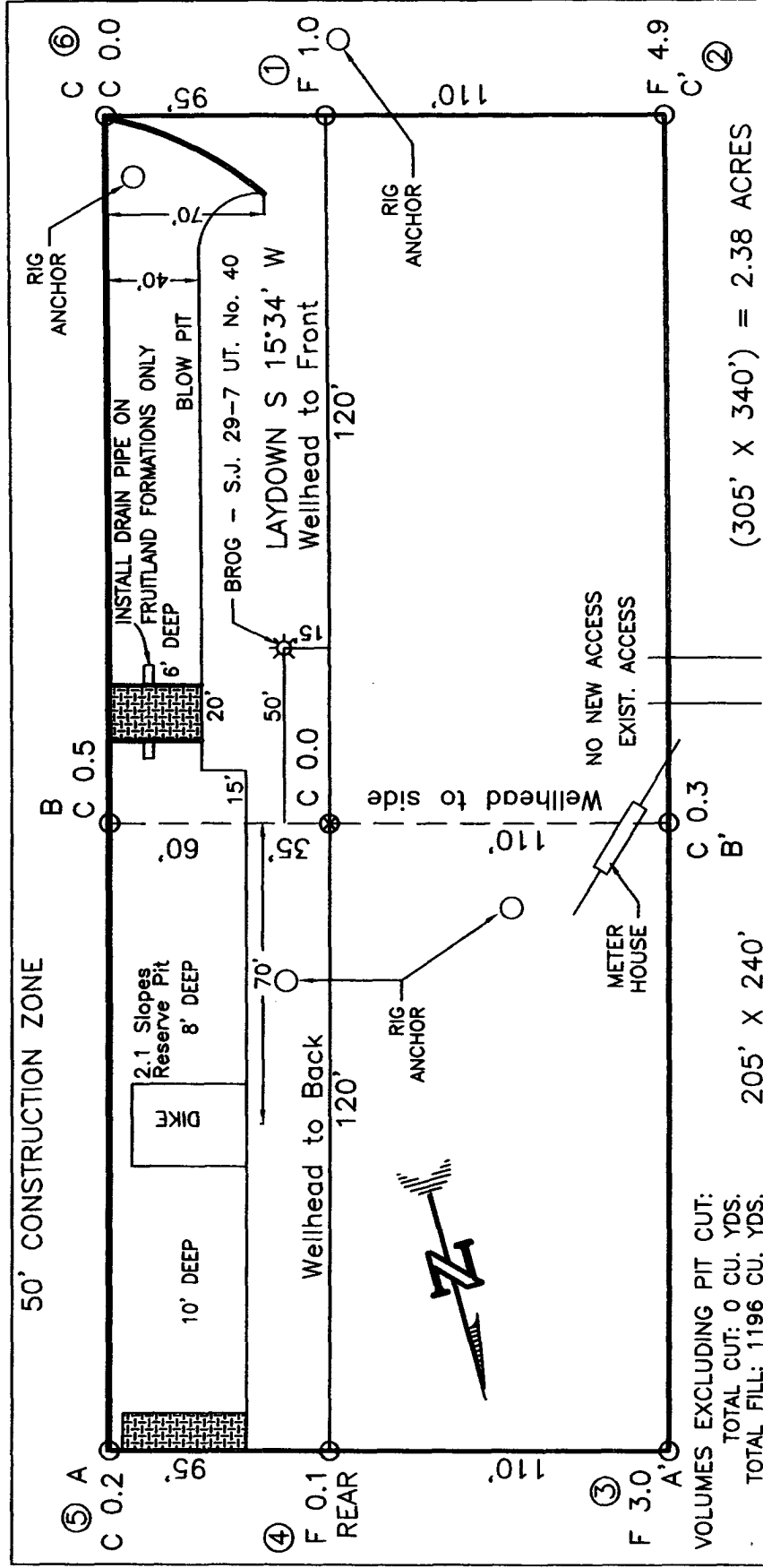
# BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 29-7 UNIT No. 197, 765 FNL 855 FEL

SECTION 28, T-29-N, R-7-W, N.M.P.M., RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6856, DATE: NOVEMBER 27, 2005

LATITUDE: 36°42.1212' N (NAD 27) LONGITUDE: 107°34.1782' W (NAD 27)



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: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

NOTE: 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.

REVISIONS	DATE	REVISION BY
1	12/29/05	L.A.
<b>Daggett Enterprises, Inc.</b> Surveying and Oil Field Services P. O. Box 15088 • Farmington, NM 87401 Phone (505) 326-1772 • Fax (505) 326-8019 NEW MEXICO L.S. 14831 DASH TRF B.L. TOWNSHIP BROOKS PL3 NORTH BROOKS		
DATE		12/07/05

**SAN JUAN 29-7 UNIT No. 197, 765 FNL 855 FEL**

**SECTION 28, T-29-N, R-7-W, N.M.P.M., RIO ARriba COUNTY, NEW MEXICO**

**GROUND ELEVATION: 6856, DATE: NOVEMBER 27, 2005**

**LATITUDE: 36°42.1212' N (NAD 27)      LONGITUDE: 107°34.1782' W (NAD 27)**


ELEV. A-A'	C/L			
6970				
6860				
6850				
6840				

ELEV. B-B'	C/L			
6970				
6860				
6850				
6840				

ELEV.	C-C'	C/L					
6970							
6860							
6850							
6840							

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE: 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.

REVISIONS	DATE:	REVISED BY:
		
<p><b>Daggett Enterprises, Inc.</b>  <b>Surveying and Oil Field Services</b>  P. O. Box 15088 • Farmington, NM 87401  Phone (505) 328-1772 • Fax (505) 328-6019  NEW MEXICO L.S. 14831</p>		
ISSUED BY:	CADFILE:	DATE:
B.L.	BR605CFB	12/01/05
SCALE:		
DATE:		

OPERATIONS PLAN

**Well Name:** San Juan 29-7 Unit #197  
**Location:** Unit A (NENE), 765' FNL & 855' FEL, Section 28, T29N, R7W,  
 Rio Arriba County, New Mexico  
 Latitude 36° 42.1212'N Longitude 107° 34.1782' W  
**Formation:** Basin Fruitland Coal / Pictured Cliffs  
**Elevation:** 6856' GR

Formation:	Top	Bottom	Contents
Ojo Alamo	2768'	2861'	aquifer
Kirtland	2861'	3388'	gas
T/Fruitland Coal	3388'		gas
B/Fruitland Coal	3642'		gas
Pictured Cliffs	3644'		
<b>Total Depth</b>	<b>3844'</b>		

**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
120-3844'	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 - 3844'	4 1/2"	10.5#	J/K-55

**Tubing Program:**

0 - 3844'	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 @ 2861'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2861'. 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 10, 2006

**Cementing:**

7" surface casing <sup>1.61</sup> 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 252 sx (536 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 660 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 to 600 psi/30 min.

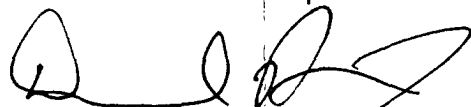
Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 1500 psi/30 min.

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:**

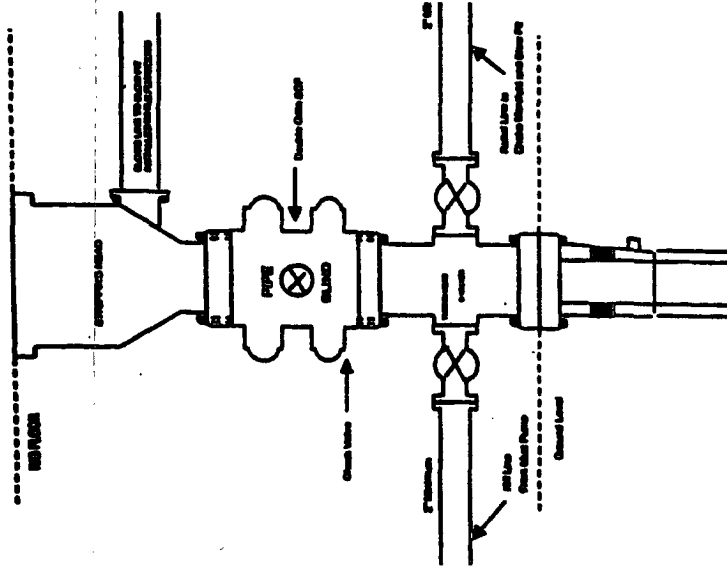
- \* The Fruitland Coal formation and Pictured Cliffs will be completed.
- \* Anticipated pore pressure for the Fruitland Coal is 600 - 700 psi.
- \* This gas is dedicated.
- \* The east half of the section is dedicated to the FC and the NE/4 is dedicated to the PC for this well.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

  
\_\_\_\_\_  
Drilling Engineer

1/10/06  
\_\_\_\_\_  
Date

# BURLINGTON RESOURCES

Completion/Workover Rig  
SOP Configuration  
2,000 psi System

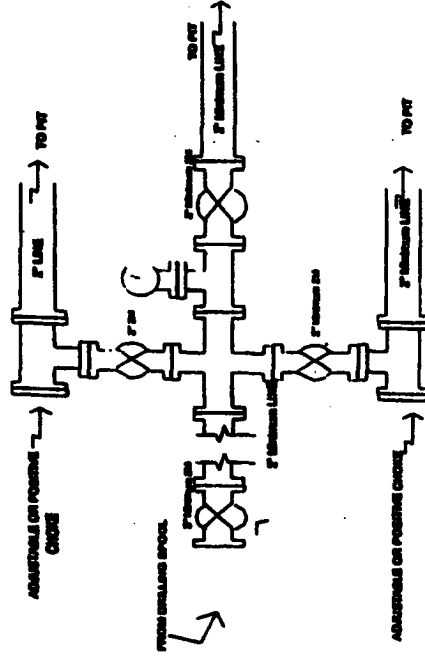


Minimum SOP Installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate SOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the SOP. All SOP equipment is 2000 psi working pressure or greater excluding 500 psi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

Figure #2

# BURLINGTON RESOURCES

Drilling Rig  
Choke Manifold Configuration  
2000 psi System

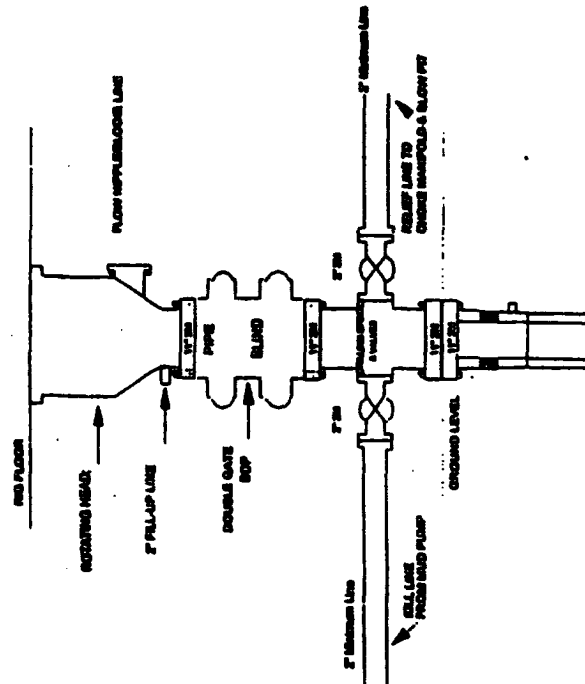


Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

# Burlington Resources

Drilling Rig  
2000 psi System



SOP Installation from Surface Casing Point to Total Depth. 1 1/2" Bore, 2000 psi minimum working pressure double gate SOP to be equipped with blind and pipe rams. A stripping head on top of the SOP. All SOP equipment is 2,000 psi working pressure or greater.

Figure #4