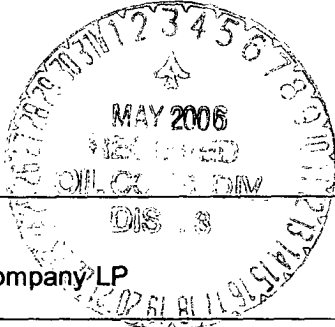



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL		5. Lease Number NMNM-02861
1b. Type of Well GAS		Unit Reporting Number 070 FARMINGTON NM
2. Operator BURLINGTON RESOURCES Oil & Gas Company LP		6. If Indian, All. or Tribe
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		7. Unit Agreement Name
4. Location of Well 1080' FSL, 1855' FEL Lat. 36° 33.3775'N, Long. 107° 49.5736'W		8. Farm or Lease Name Lodewick
		9. Well Number #12S
		10. Field, Pool, Wildcat Basin Fruitland Coal
		11. Sec., Twn, Rge, Mer. (NMPM) Unit O, Sec. 19, T27N, R09W API # 30-045-33650
14. Distance in Miles from Nearest Town 26.6 miles to Bloomfield NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1080'		
16. Acres in Lease	17. Acres Assigned to Well 320 E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 853'		
19. Proposed Depth 2514'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6465' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by:  Regulatory Associate II	Date 3/17/06	

PERMIT NO.

APPROVAL DATE

APPROVED BY 

TITLE APM

DATE 5/1/06

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.

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

This action is subject to technical and
approval of the District Manager, BLM, and the
Bureau of Land Management, U.S. Department of the Interior.

NMOC
8

DISTRICT 1
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., Santo 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

05 2006 MAR 17 PM 2 58

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 33650	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 7273	⁵ Property Name LODEWICK	⁶ Well Number 12S
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6465

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
0	19	27-N	9-W		1080	SOUTH	1855	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no. 0	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 320 acres E/2		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 1			
LOT 2			
LOT 3	19	USA NM-02861	FD 2 1/2" GLO 1947 B.C.
LOT 4	LAT: 36°33.3775' N. (NAD 27) LONG: 107°49.5736' W. (NAD 27)	1855'	FD 2 1/2" GLO 1947 B.C.

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 _____

Printed Name **Patsy Clugston**

Title **Sr. Regulatory Specialist**

Date **1/10/06**

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plot 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.

DECEMBER 14, 2005

Date of Survey _____

Signature and Seal of Registered Professional Surveyor: _____

JOHN A. VANDONICH

NEW MEXICO

REGISTERED PROFESSIONAL SURVEYOR

14831

Certificate Number _____

1080'

N 00°23'52" E
2622.29' (M)

N 89°28'49" W
2626.28' (M)

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-

33650

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal NMNM-02861

7. Lease Name or Unit Agreement Name

Lodewick

8. Well Number

#12S

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal

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 O : 1080 feet from the South line and 1855 feet from the East line
Section 19 Township 27N Rng 9W NMPM County San Juan

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

6465' GR

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

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, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flame pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flame 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/flame 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

TITLE

Regulatory Associate II

DATE

1/18/2006

Type or print name

Philana Thompson

E-mail address:

pthompson@br-inc.com

Telephone No.

505-326-9530

For State Use Only

APPROVED BY

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. 1

DATE

MAY 03 2006

Conditions of Approval (if any):

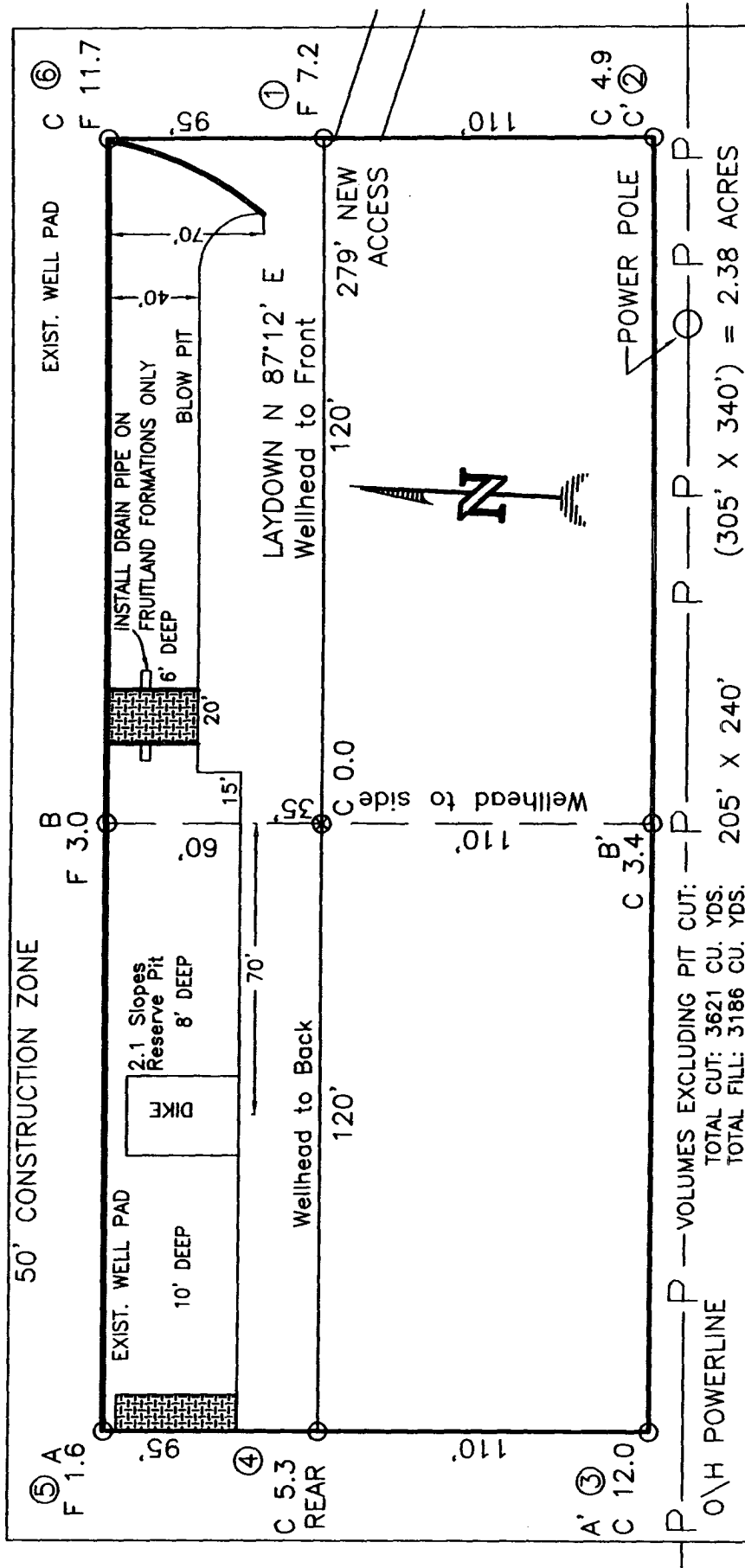
BURLINGTON RESOURCES OIL & GAS COMPANY LP

LODEWICK No. 12S, 1080 FSL 1855 FEL

SECTION 19, T-27-N, R-9-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6465, DATE: DECEMBER 14, 2005

LATITUDE: 36°33.3775' N (NAD 27) LONGITUDE: 107°49.5736' 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.

REVISION	DATE	REVISION	DATE
REVISED 02/28/06	07/26/06	REVISED BY	A.C.

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O. Box 15068 • Farmington, NM 87401
Phone (505) 326-1772 • Fax (505) 326-8019
NEW MEXICO L.S. 14831
DAGGETT ENTERPRISES, INC.
DATE 12/28/05

BURLINGTON RESOURCES OIL & GAS COMPANY LP

LODEWICK No. 12S, 1080 FSL 1855 FEL

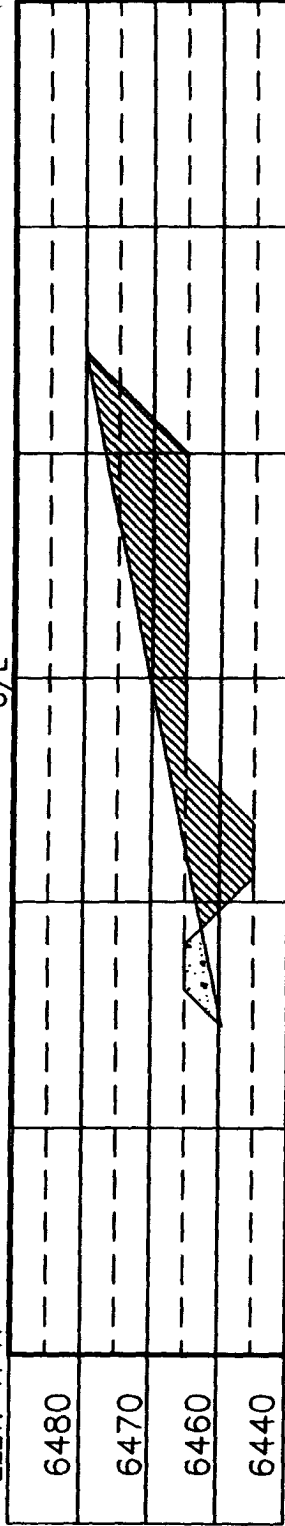
SECTION 19, T-27-N, R-9-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6465' DATE: DECEMBER 14, 2005

LATITUDE: 36°33.3775' N (NAD 27) LONGITUDE: 107°49.5736' W (NAD 27)

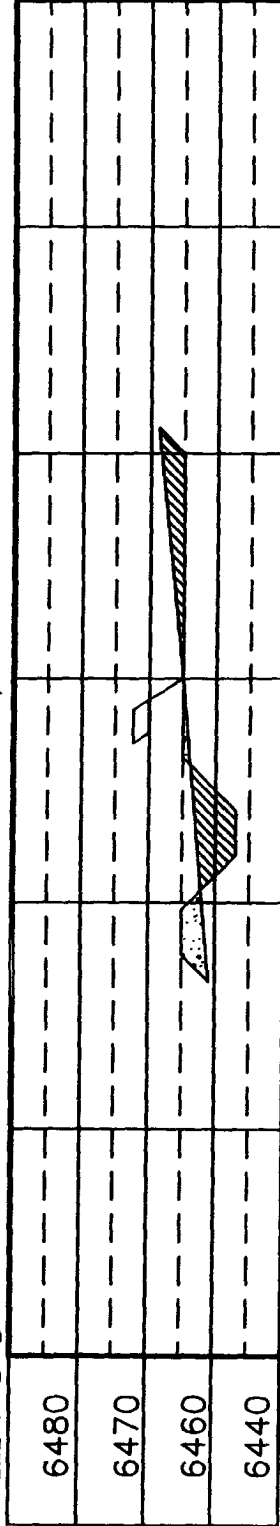
ELEV. A-A'

C/L



ELEV. B-B'

C/L



ELEV. C-C'

C/L



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.



Daggett Enterprises, Inc.
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

ISSUED BY: A.G.

NO. 1: BR594

DATE: 12/28/05

DATE: 12/28/05

OPERATIONS PLAN

Well Name: Lodewick #12S
Location: Unit O (SWSE) 1080' FSL & 1855' FEL, Section 19, T27N, R9W
 San Juan County, New Mexico
 Latitude 36° 33.3775'N; Longitude 107° 49.5736W
Formation: Basin Fruitland Coal
Elevation: 6465' GR

Formation:	Top	Bottom	Contents
Surface	San Jose		
Ojo Alamo	1450'		
Kirtland	1548'	4929'	gas
T/Fruitland	2090'		gas
B/Fruitland	2312'		gas
Pictured Cliffs	2314'		
Total Depth	2514'		

Note: The Total Depth for this well is into the Pictured Cliffs interval, but currently only have plans to complete the Fruitland Coal interval. We could in the near future perforate/stimulate the Pictured Cliffs interval, but only would once Regulatory approval was asked for and received.

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
120-2514'	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 3/4"	0 - 120'	7"	20.0#	J-55
6 1/4"	0 - 2514'	4 1/2"	10.5#	J/K-55

Tubing Program:

0 - 2514'	2 3/8"	4.7#	J-55
-----------	--------	------	------

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 @ 1548'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1548'. 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 18, 2006

Cementing:

7" surface casing ^{1.61} 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. (54cu 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 123sx (262 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 90sx (124cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 386 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~~ ^{BOP} 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:

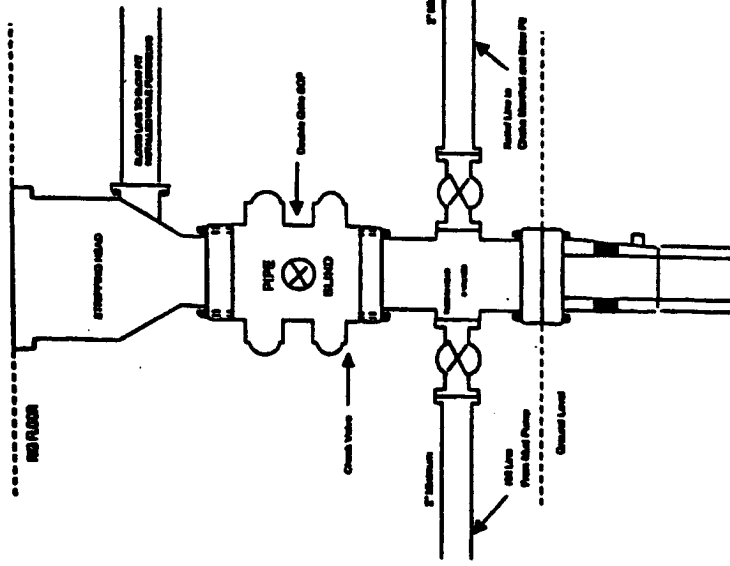
- * The Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is between 600 - 700 psi.
- * This gas is dedicated.
- * The southwest quarter of section 19 is dedicated to the Basin Fruitland Coal.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.


Drilling Engineer


Date

BURLINGTON RESOURCES

Completion/Workover Rig
BOP Configuration
2,000 psi System



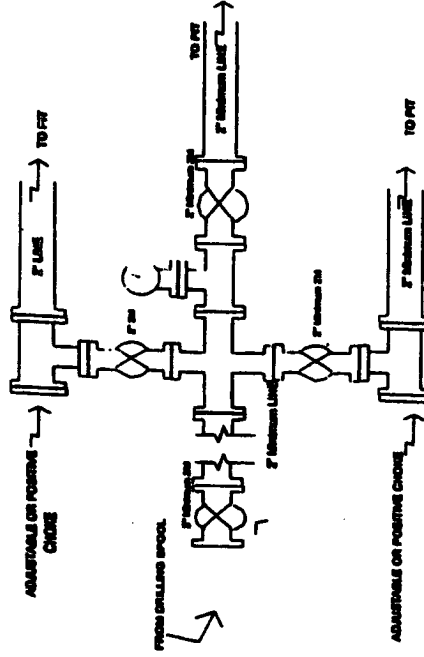
Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi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

Figure #2

4-20-01

BURLINGTON RESOURCES

Drilling Rig
Choke Manifold Configuration
2000 psi System



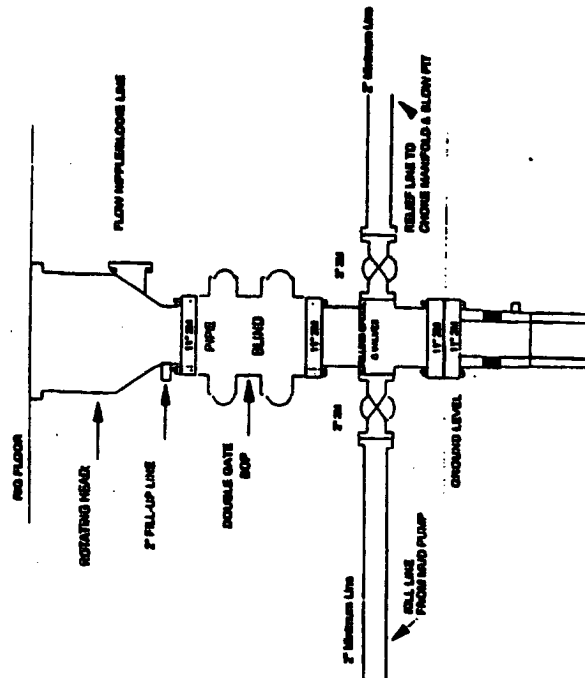
Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01

Burlington Resources

Drilling Rig
2000 psi System



BOP Installation from Surface Casing Point to Total Depth. 11\"/>

Figure #1