

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2001 JUN 13 11:30 AM

1a. Type of Work DRILL	5. Lease Number SF-078425 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 29-7 Unit
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 72C
4. Location of Well 1150' FSL, 305' FEL Latitude 36° 41.6, Longitude 107° 31.9	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T-29-N, R-7-W API # 30-039-26650
14. Distance in Miles from Nearest Town 10 miles from Blanco	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 305'	17. Acres Assigned to Well 320 E/2
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1227'	
19. Proposed Depth 5681'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6294' 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: <u>[Signature]</u> Regulatory/Compliance Supervisor	<u>12-18-00</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY /s/ Jim Lovato TITLE _____ DATE MAR - 2 2001

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

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.

NMOCD

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- 26650		*Pool Code 72319	*Pool Name Blanco Mesaverde
*Property Code 7465	*Property Name SAN JUAN 29-7 UNIT		*Well Number 72C
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS, INC.		*Elevation 6294'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
P	26	29-N	7-W		1150'	SOUTH	305'	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

Bottom hole location is 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
13 Dedicated Acres			13 Joint or Infill		14 Consolidation Code		15 Order No.		
E/320									

E/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

OR A NON-STANDARD UNIT HAS BEEN APPROVED

16

USA SF-078424

LOPEZ, JUAN I

USA NM-019404

26

FD W.C.
2 1/2" BC
G.L.O. 1913

LOPEZ, JUAN I

N 00-01-37 E
2639.46' (M)

1004'

170'

305'

LAT: 36°41.6' N.
LONG: 107°31.9' W.

USA SF-078425

FD 2 1/2" BC
G.L.O. 1913

S 89-58-14 W
2618.50' (M)


1150'

FD W.C.
3 1/4" BC
G.L.O. 1913

1" = 1 MILE

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 Cole
Printed Name
Regulatory Supervisor
Title
12-18-00
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.

11-7-BOX A. RUSH
Date of Survey
Signature and Seal of Professional Surveyor.
REGISTERED PROFESSIONAL LAND SURVEYOR
8894
Certificate Number

BURLINGTON RESOURCES OIL & GAS, INC.

SAN JUAN 29-7 UNIT #72C

SE/4 SEC. 26, T-29-N, R-7-W, N.M.P.M.

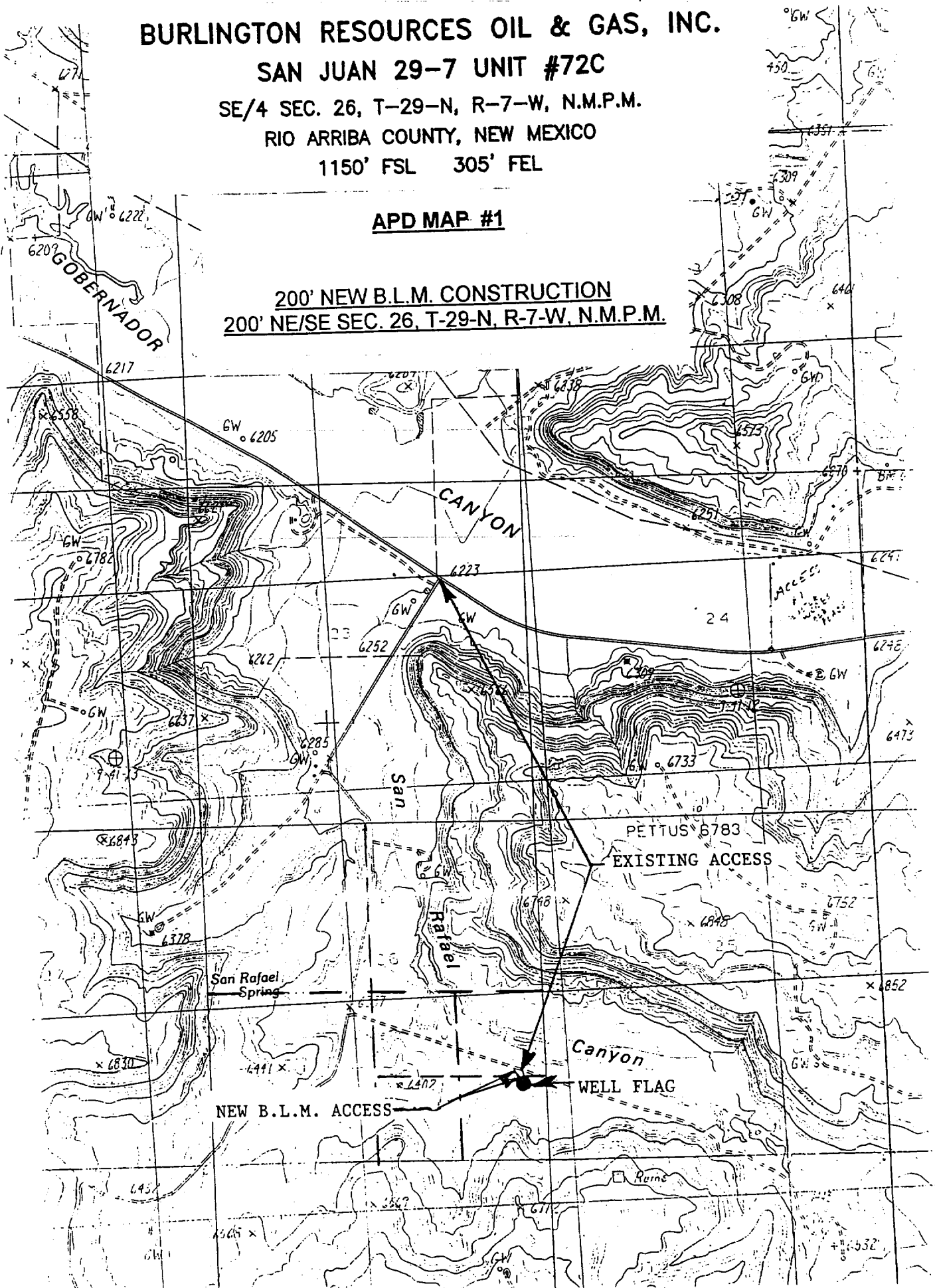
RIO ARRIBA COUNTY, NEW MEXICO

1150' FSL 305' FEL

APD MAP #1

200' NEW B.L.M. CONSTRUCTION

200' NE/SE SEC. 26, T-29-N, R-7-W, N.M.P.M.



OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #72C
Location: 1150' FSL, 305' FEL, Section 26, T-29-N, R-7-W
Rio Arriba County, New Mexico
Latitude 36° 41.6, Longitude 107° 31.9
Formation: Blanco Mesa Verde
Elevation: 7151' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2226'	
Ojo Alamo	2226'	2346'	aquifer
Kirtland	2346'	2681'	
Fruitland	2681'	3106'	gas
Pictured Cliffs	3106'	3206'	gas
Lewis	3206'	3721'	gas
Intermediate TD	3456'		
Huerfano Bentonite	3721'	4066'	gas
Chacra	4066'	4841'	gas
Massive Cliff House	4841'	4931'	gas
Menefee	4931'	5281'	gas
Point Lookout	5281'		gas
Total Depth	5681'		

Logging Program:

Mud Logs/Coring/DST -
Mud logs - none
Coring - none
DST - none
Cased hole - Gamma Ray, Cement bond - surface to TD

Mud Program:

<u>Interval- MD</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3456'	LSND	8.4-9.0	30-60	no control
3456- 5681'	Air/Mist/N2*	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

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

<u>Hole Size</u>	<u>Measured Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3456'	7"	20.0#	J-55
6 1/4"	3456' - 5681'	4 1/2"	10.5#	J-55

Tubing Program: 0' -5681' 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 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 - cement with 159 sx Class "H" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

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

7" intermediate casing -

Lead w/359 sx 50/50 Class "G"/Trinity Light w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx, 0.1% antifoam and 0.25# flocele/sx (1040 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2581'. First stage: cement with 206 sx Class "G" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Flocele, 0.1% antifoam. Second stage: 301 sx Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 1/2 pps Flocele, 10 pps Gilsonite (1040 cu.ft., 100% 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 at 2346'. Two turbolating centralizers at the base of the Ojo Alamo at 2346'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 234 sx 50/50 Class "G" Poz w/1/4# flocele/sx, 4.5% gel, 0.1% retardant, 5# gilsonite/sx, 0.25% fluid loss additive (334 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

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):

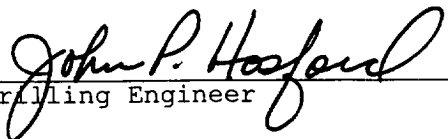
The following equipment will be operational while air/mist drilling:

- 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 formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

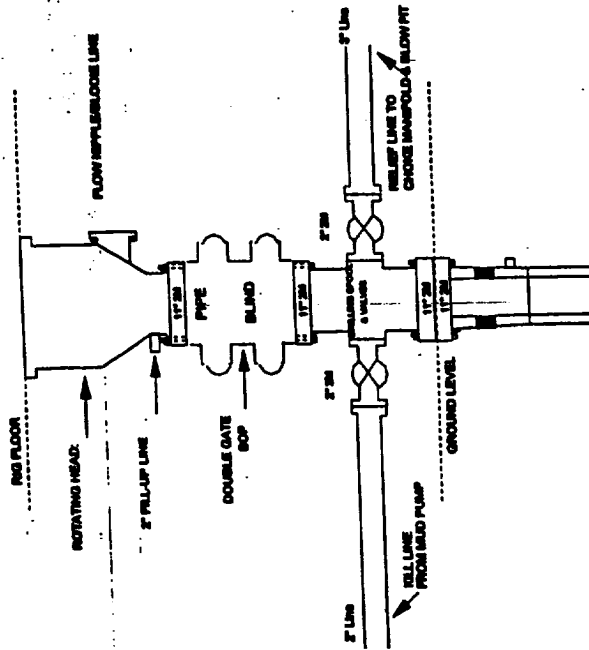
Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The east half of Section 24 is dedicated to the Mesa Verde.
- This gas is dedicated.


Drilling Engineer


Date

Drilling Rig

2000 psi System



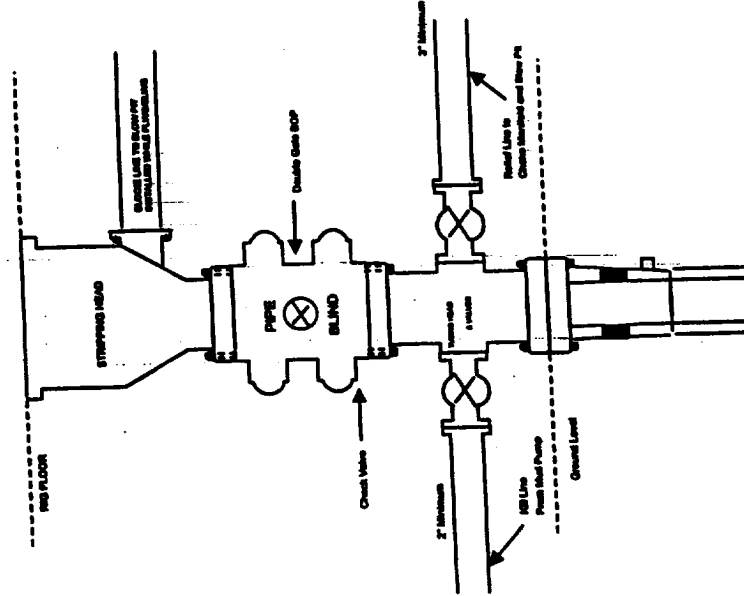
BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal. 2000 psi working pressure. Double gate BOP to be equipped with blind rams and pipe rams. A rotating head on top of ram preventers. All BOP equipment is 2,000 psi working pressure.

Figure #1

BURLINGTON RESOURCES

Completion/Workover Rig

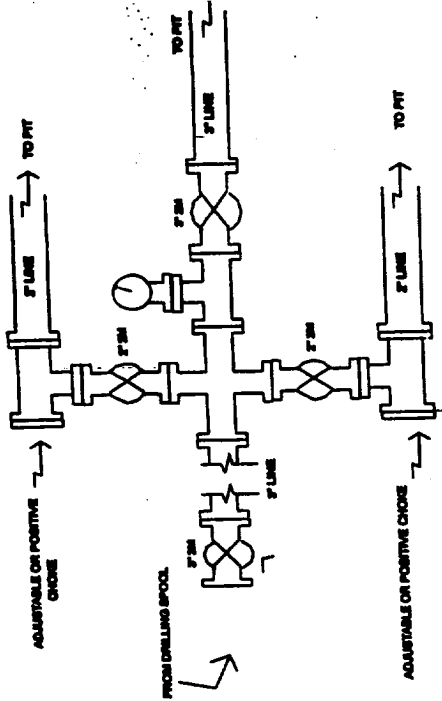
BOP Configuration
2,000 psi System



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 equipment is 2000 psi working pressure or greater.

Figure #2

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