

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 NO-G-0955-1134 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe Navajo Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name Huerfanito Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Huerfanito Unit 9. Well Number #52R
4. Location of Well 1450' FSL, 1210' FEL Latitude 36° 31.7', Longitude 107° 44.1'	10. Field, Pool, Wildcat Ballard Pict'd Cliffs 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 36, T-27-N, R-9-W API # 30-045-30512
14. Distance in Miles from Nearest Town 30 miles from P.O. in Bloomfield, NM	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1210'	
16. Acres in Lease	17. Acres Assigned to Well 160 SE/4
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2661'	
19. Proposed Depth 2193'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6155' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Supervisor	Date <u>1-9-01</u>

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ Jim Lovato TITLE _____ DATE _____

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.

BLM/BLM

KV

DISTRICT I
1624 E. French Dr., Hobbs, N.M. 88240

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045 30512		*Pool Code 71439	*Pool Name Ballard Pictured Cliffs
*Property Code 7138	*Property Name HUERFANITO UNIT		*Well Number 52R
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS, INC.		*Elevation 6156'

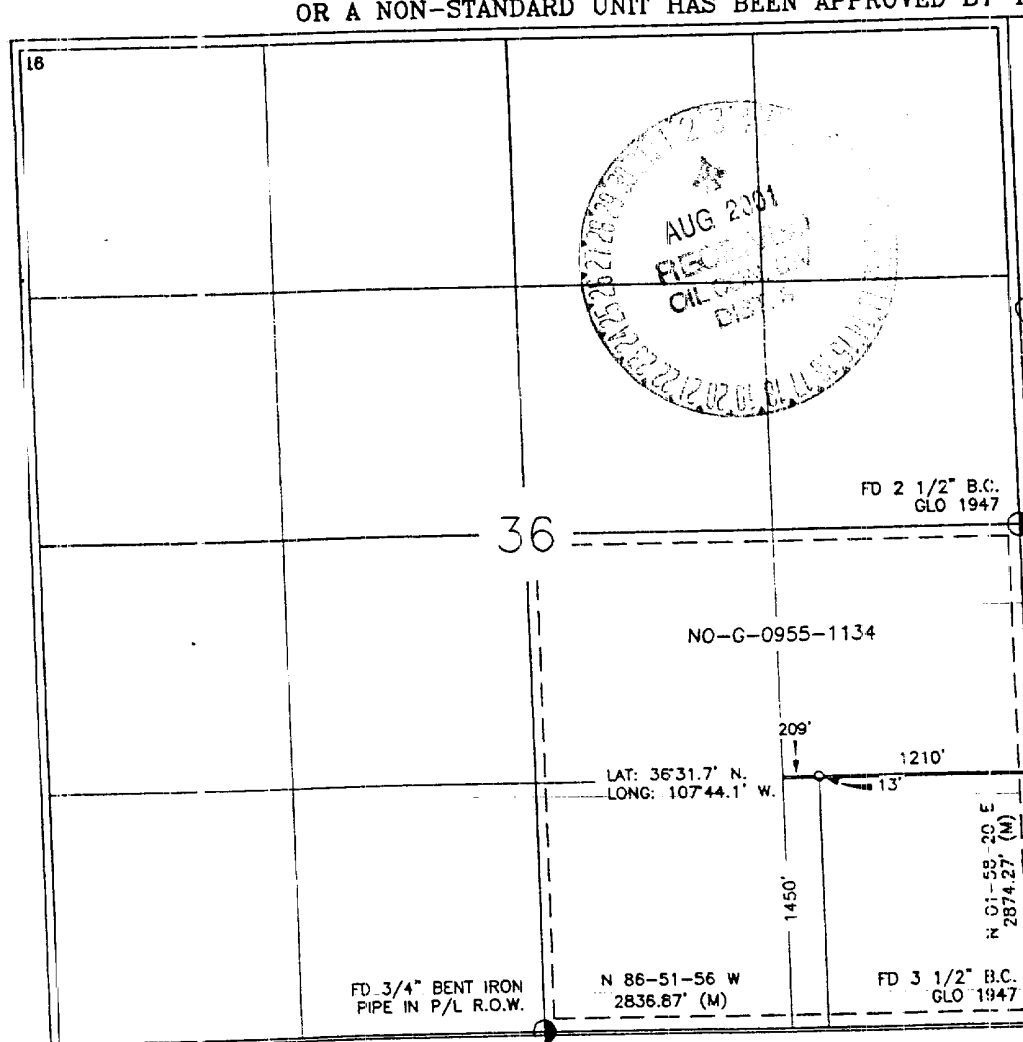
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	36	27-N	9-W		1450'	SOUTH	1210'	EAST	SAN JUAN

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 SE/160			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



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

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

Signature and Seal of Professional Surveyor

8894

Certificate Number

BURLINGTON RESOURCES OIL & GAS, INC.

HUERFANITO UNIT #52R

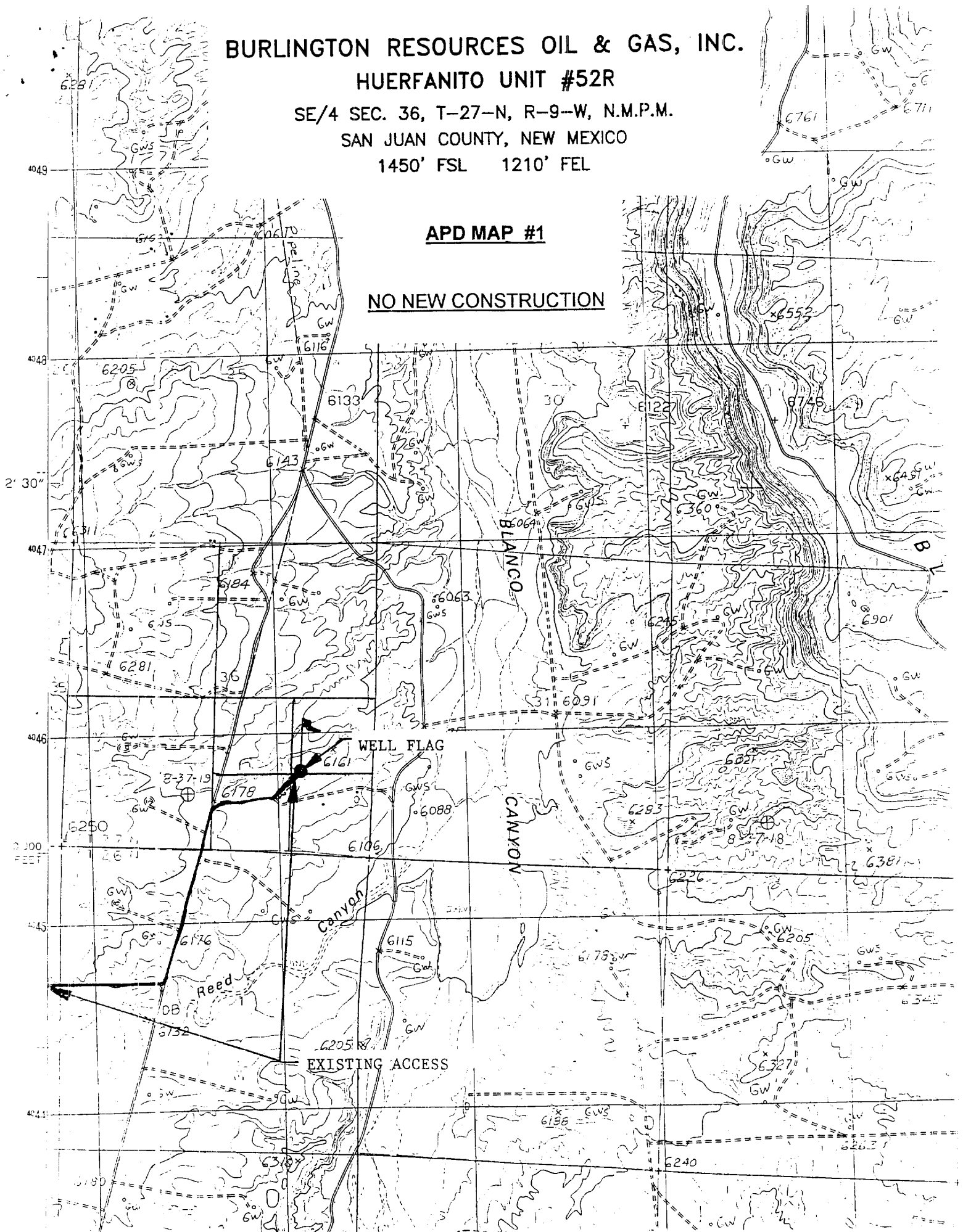
SE/4 SEC. 36, T-27-N, R-9-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

1450' FSL 1210' FEL

APD MAP #1

NO NEW CONSTRUCTION



OPERATIONS PLAN

Well Name: Huerfanito Unit #52R
Location: 1450' FSL, 1210' FEL, Section 36, T-27-N, R-9-W
San Juan County, New Mexico
Latitude 36° 31.7', Longitude 107° 44.1'
Formation: Ballard Pictured Cliffs
Elevation: 6156' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1138'	
Ojo Alamo	1138'	1278'	aquifer
Kirtland	1278'	1623'	gas
Fruitland	1623'	1993'	gas
Pictured Cliffs	1993'		gas
Total Depth	2193'		

Logging Program: cased hole - CBL/GR/CCL TD to surface

Coring Program: None

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2193'	FW	8.4-9.0	32-45	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
8 3/4"	0 - 120'	7"	20#	C-55
6 1/4"	0 - 2193'	2 7/8"	6.5#	C-55

Float Equipment: 7" surface casing - saw tooth guide shoe.
Centralizers will be run in accordance with Onshore Order #2.

2 7/8" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 1278'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1278'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 2 7/8" 2000 psi screw on independent wellhead.

Cementing:

7" surface casing - cement with 46 sx Class "H" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

2 7/8" production casing - Lead w/241 sx Class "G" TXI lightweight cement w/2.5% sodium metasilicate, 1/2 pps flocele, 10 pps gilsonite, 2% calcium chloride, and 0.2% antifoam agent. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 1/4 pps flocele, 5 pps gilsonite, and 0.1% antifoam agent (737 cu.ft. of slurry, 100% excess to circulate to surface).

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

BOP and tests:

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

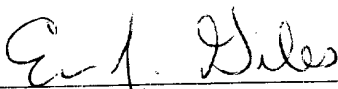
Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

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

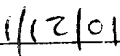
Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- * This gas is dedicated.
- * The southeast quarter of Section 36 is dedicated to the Pictured Cliffs.



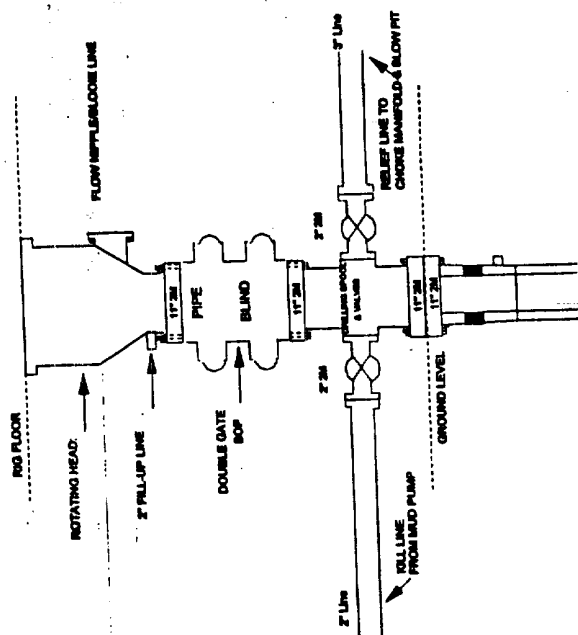
Drilling Engineer



Date

Burlington Resources

Drilling Rig 2000 psi System

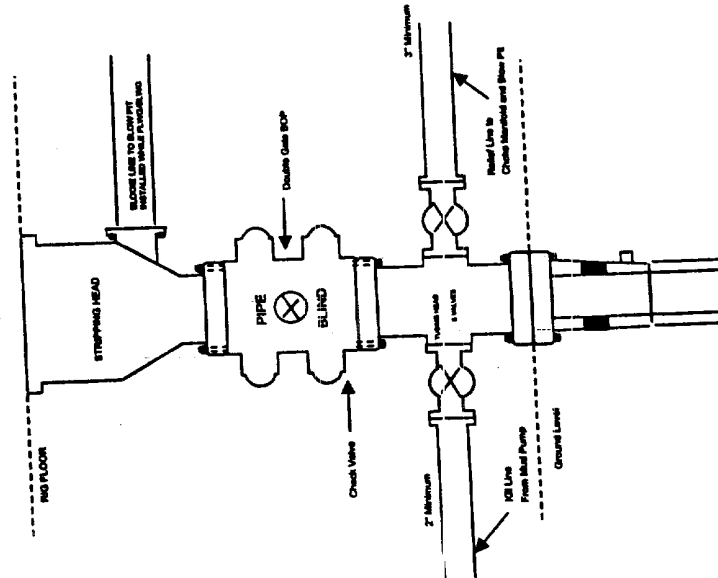


BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 2000 psi working pressure. Double gate BOP to be equipped with blind rams and pipe rams. A rotating head on top of ram preventers. All BOP equipment is 2,000 psi working pressure.

Figure #1

BURLINGTON RESOURCES

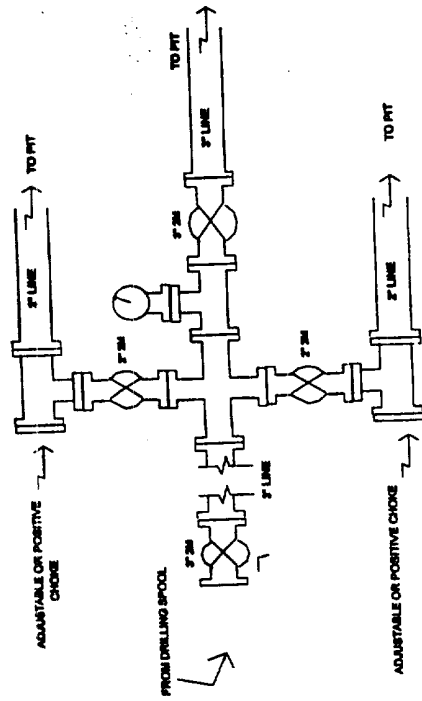
Completion/Workover Rig BOP Configuration 2,000 psi System



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