

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCT 12 6 11 11

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-014973
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator MARALEX RESOURCES, INC.		7. If Unit or CA Agreement, Name and No. N/A
3a. Address P. O. BOX 338 IGNACIO, CO 81337	3b. Phone No. (include area code) (970) 563-4000	8. Lease Name and Well No. DOME FEDERAL 7-27-13 3-T
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 2537' FSL & 890' FEL At proposed prod. zone SAME		9. API Well No. 30-045-33999
14. Distance in miles and direction from nearest town or post office* 8 AIR MILES SSW OF FARMINGTON, NM		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL GAS
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 890'	16. No. of acres in lease 320	11. Sec., T. R. M. or Blk. and Survey or Area 7-27N-13W NMPM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,213'	19. Proposed Depth 1,600'	12. County or Parish SAN JUAN
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,995' GL	22. Approximate date work will start* 02/07/2007	13. State NM
17. Spacing Unit dedicated to this well E2 / 320 AC. RCVD SEP 19 '07 OIL CONS. DIV.		
20. BLM/BIA Bond No. on file BLM STATE WIDE NM 2726 B188110 DIST. 3		
23. Estimated duration 2 WEEKS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) BRIAN WOOD	Date 10/06/2006
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Title CONSULTANT PHONE: (505) 466-8120 FAX: (505) 466-9682

Approved by (Signature) 	Name (Printed/Typed) Markie Wood	Date 9/17/07
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Title AFM	Office PFO
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Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

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

NMOCD

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 & 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

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-045-33999</b>	Pool Code <b>71629</b>	Pool Name <b>Basin Fruitland Coal</b>
Property Code <b>301618</b>	Property Name <b>DOMESTIC FEDERAL 7-27-13</b>	
OGRID No. <b>13998</b>	Operator Name <b>MARALEX RESOURCES, INC.</b>	Well Number <b>3-T</b>
		Elevation <b>5995</b>

**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
<b>I</b>	<b>7</b>	<b>27N</b>	<b>13W</b>		<b>2537</b>	<b>South</b>	<b>890</b>	<b>East</b>	<b>San Juan</b>

**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
Dedicated Acres <b>320 E/2</b>		Joint or Infill		Consolidation Code		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

6M	N 0° 7' E	16	45.46 ch.	WEST	40 ch.	N 0° 3' W	2537'	890'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Brian Wood</i> Signature <b>BRIAN WOOD</b> Printed Name <b>CONSULTANT</b> Title and E-mail Address <b>brian@permitswest</b> Date <b>10-6-06</b>
		3	2	1					
		4	5	6					
		9	8	7					
10	11	12	45.68 ch.	WEST	40 ch.				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. <i>William E. Malone II</i> Signature and Seal of Professional Surveyor <b>#8466</b> Date of Survey <b>10-6-06</b> Certificate Number <b>8466</b>

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1220 S. 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  
070 FARMINGT AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045-33999	'Pool Code 71629	'Pool Name Basin Fruitland Coal
'Property Code 301618	'Property Name DOME FEDERAL 7-27-13	'Well Number 3-T
'GRID No. 13998	'Operator Name MARALEX RESOURCES, INC.	'Elevation 5995

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
I	7	27N	13W		2537	South	890	East	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
'Dedicated Acres 320 E/2		'Joint or Infill		'Consolidation Code		'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

6M	16	45.46 ch.	WEST	40 ch.	N 0° 3' W	890'	2537'	N 0° 7' E
	3	2	1					
	4	5	6					
	9	8	7					
10	11	12	45.68 ch.	WEST	40 ch.			

LAT. 36.58922° N  
LONG. 108.25436° W

17 OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  
Signature: *R. Wood*  
Printed Name:  
Title and E-mail Address:  
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:  
#8466  
William E. Malone II  
Certificate Number: 8466

Requested  
new plat  
9/21/07

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.  
30-045- 33999  
5. Indicate Type of Lease  
STATE ☐ FEE ☐  
6. State Oil & Gas Lease No.  
NMMNM-014973

7. Lease Name or Unit Agreement Name

DOME FEDERAL 7-27-13

8. Well Number 3-T

9. OGRID Number 013998

10. Pool name or Wildcat  
BASIN FRUITLAND COAL GAS

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  
MARALEX RESOURCES, INC.

3. Address of Operator  
P. O. BOX 338, IGNACIO, CO 81337

4. Well Location

Unit Letter: I

2537' FSL & 890' FEL

Section 7

Township 27 N

Range 13 W

NMPM

SAN JUAN

County

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

5,995' GL

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type: DRILLING Depth to Groundwater: >50' Distance from nearest fresh water well: >1,000' Distance from nearest surface water: >300'

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

OTHER: DRILLING PIT ☒

SUBSEQUENT REPORT OF:

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

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.

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 Brian Wood TITLE: CONSULTANT

DATE: OCT. 6, 2006

Type or print name: BRIAN WOOD

E-mail address: brian@permitswest.com

Telephone No.: (505) 466-8120

For State Use Only

APPROVED BY: [Signature] TITLE: Deputy Oil & Gas Inspector

District #3

DATE

SEP 21 2007

Conditions of Approval (if any):

Maralex Resources, Inc.  
Dome Federal 7-27-13 3-T  
2537' FSL & 890' FEL  
Sec. 7, T. 27 N., R. 13 W.  
San Juan County, New Mexico

PAGE 1

## Drilling Program

### 1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Ojo Alamo	0'	5'	+5,995'
Farmington	495'	500'	+5,500'
Fruitland	945'	950'	+5,050'
Pictured Cliffs	1,320'	1,325'	+4,675'
Lewis Shale	1,495'	1,500'	+4,500'
Total Depth (TD)	1,600'	1,605'	+4,395'

### 2. NOTABLE ZONES

<u>Oil &amp; Gas Zones</u>	<u>Water Zone</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs		

Water zones will be protected with casing, cement, and fresh water weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.)

Once out from under the surface casing, a minimum 2,000 psi BOP and choke manifold system will be used. BOP controls will be installed before drilling the surface casing plug and used until the well is completed or abandoned.

Maralex Resources, Inc.  
Dome Federal 7-27-13 3-T  
2537' FSL & 890' FEL  
Sec. 7, T. 27 N., R. 13 W.  
San Juan County, New Mexico

PAGE 2

Will use rig pump to pressure test to 1,000 psi. All BOP, mechanical, and pressure tests will be recorded on the driller's log. BOP will be inspected and operated at least daily to assure good mechanical working order. The inspection will be recorded on the daily drilling report.

#### 4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
12-1/4"	8-5/8"	24#	J-55	S T & C	New	160'
7-7/8"	5-1/2"	15.5#	J-55	L T & C	New	1,600'

Surface casing will be cemented to the surface with  $\approx 135$  cubic feet ( $\approx 115$  sacks) standard cement with 1/4 pound per sack cellophane + 2%  $\text{CaCl}_2$ . Yield = 1.18 cubic feet per sack. Weight = 15.6 pounds per gallon. Volume = 25% annular excess. Three centralizers will be installed.

Production casing will be cemented to the surface with  $\approx 25\%$  annular excess. Cement with  $\approx 145$  sacks Class B with 6% gel + 5 pounds per sack gilsonite + 1/4 pound per sack cellophane + 2%  $\text{CaCl}_2$ . Follow with  $\approx 75$  sacks Class B with 0.4% Halad 344 + 5 pounds per sack gilsonite + 1/4 pound per sack cellophane +  $\approx 35$  sacks scavenger slurry. Lead cement will have a yield of 1.88 cubic feet per sack and weight of 12.4 pounds per gallon. Tail slurry will have a yield of 1.26 cubic feet per sack and weight of 15.2 pounds per gallon. Approximately 17 centralizers will be used.

#### 5. MUD PROGRAM

<u>Range</u>	<u>Type</u>	<u>Pounds per Gallon</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0' - 1,000'	Fresh Water	8.4	Polymer Sweeps	-
1,000' - TD	LSND	8.4 - 9.1	30 - 60	<10 cc

Maralex Resources, Inc.  
Dome Federal 7-27-13 3-T  
2537' FSL & 890' FEL  
Sec. 7, T. 27 N., R. 13 W.  
San Juan County, New Mexico

PAGE 4

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Dual induction, lateral, formation density, compensated neutron, high resolution density, and caliper logs are likely to be run.

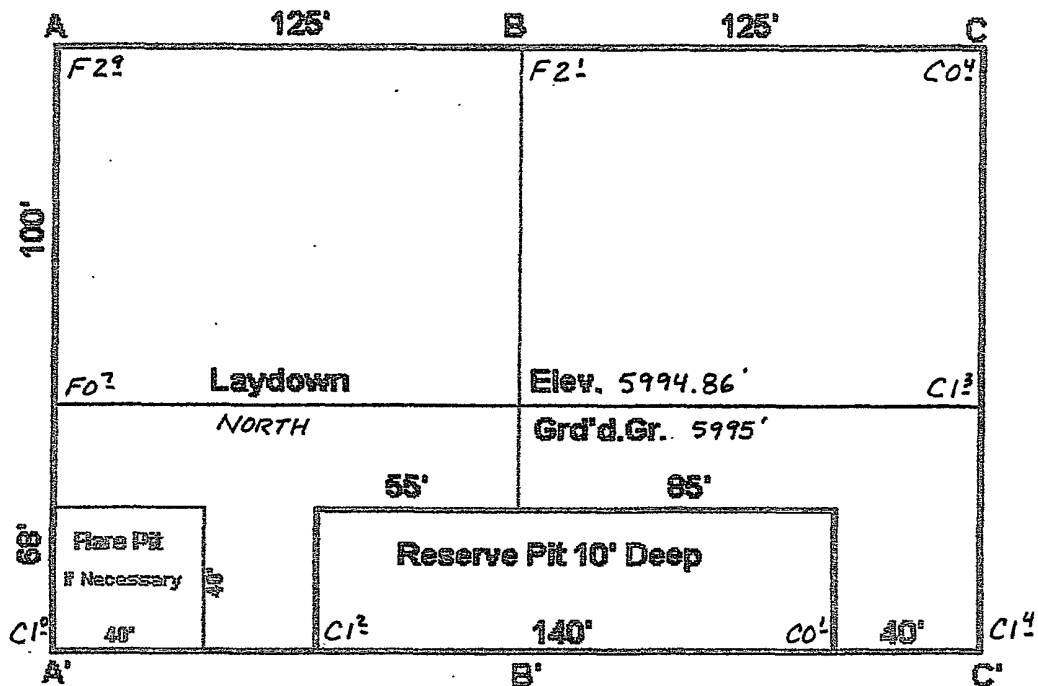
7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be  $\leq 350$  psi.

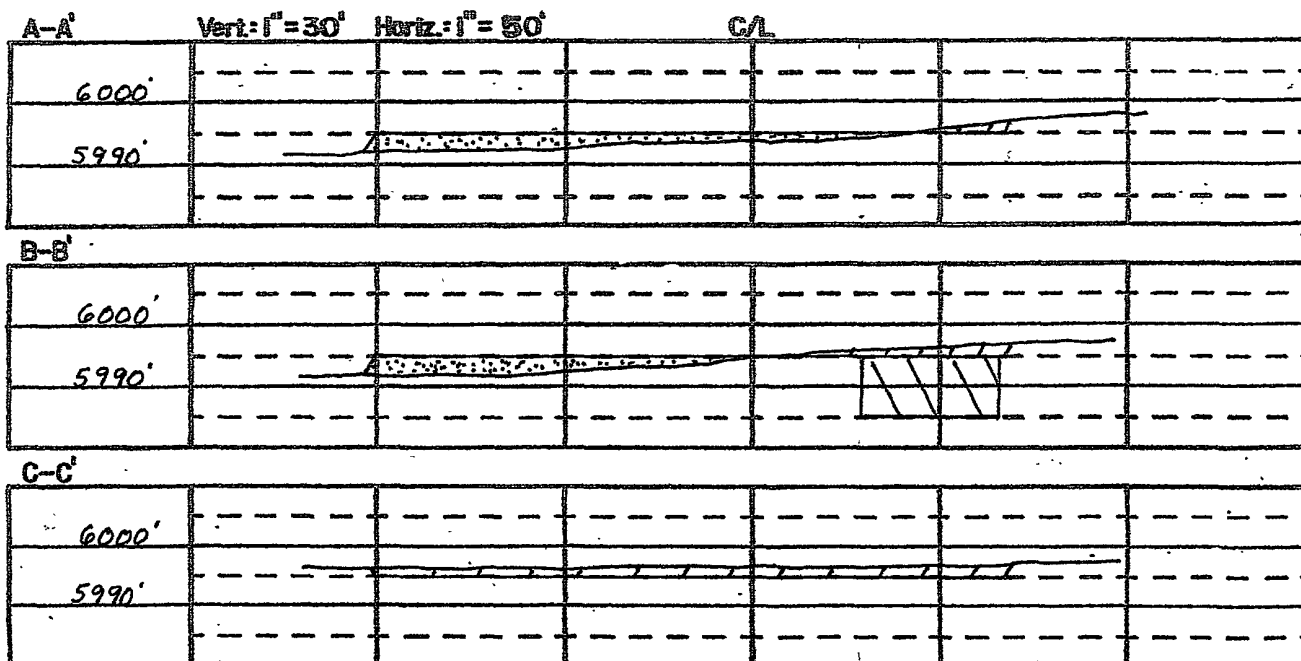
8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take  $\approx 2$  weeks to drill and complete the well.

MARALEX RESOURCES, INC.  
 DOME FEDERAL 7-27-13 #3-T  
 2537' FSL & 890' FEL  
 Sec.7, T27N, R13W, NMPM  
 San Juan Co., NM



SCALE : 1"=50'      ← N →

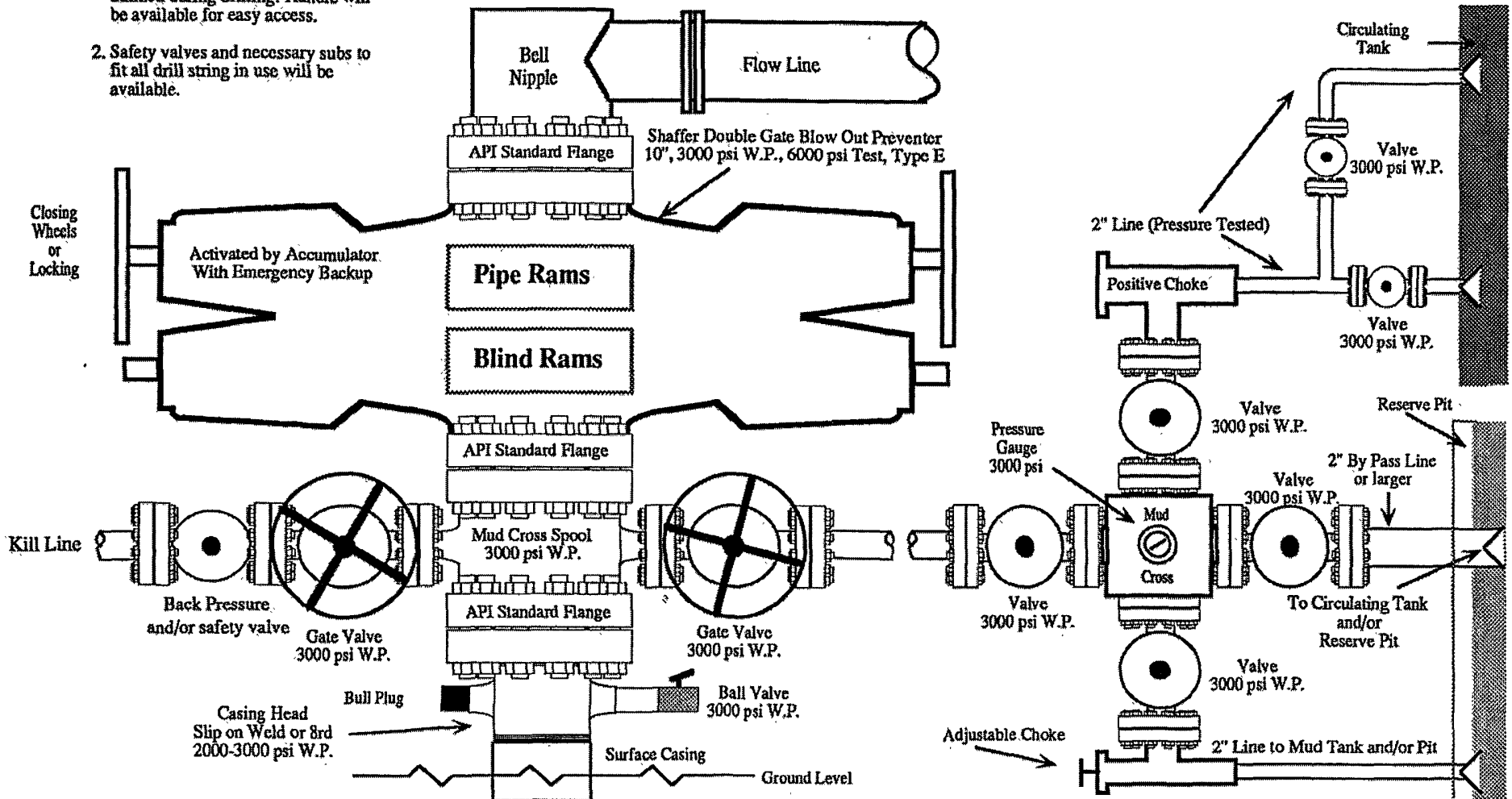




# 2,000 PSI BOP SYSTEM

Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.