

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136  
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF-079341	
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 SJ 15	
2. Name of Operator Phillips Petroleum Company		7. Unit or CA Agreement Name and No. San Juan 32 Fed 23	
3a. Address 5525 Highway 64, NBU 3004, Farmington, NM 87401		8. Lease Name and Well No. SJ 32 Fed 23 #1	
3b. Phone No. (include area code) 505-599-3464		9. API Well No. 30-045-30242	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface Unit H, 1775' FNL & 895' FEL At proposed prod. zone Same as above		10. Field and Pool, or Exploratory Basin Fruitland Coal	
14. Distance in miles and direction from nearest town or post office* 17-1/2" miles northeast of Aztec		11. Sec., T., R., M., or Blk. and Survey or Area Section 23, T32N, R9W	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 895'		12. County or Parish San Juan	
16. No. of Acres in lease 1560 acres		13. State NM	
17. Spacing Unit dedicated to this well 316.56 E/2		20. BLM/BIA Bond No. on file ES0048	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6809' groundlevel	
19. Proposed Depth 3604'		22. Approximate date work will start* 3rd Qtr 2000	
23. Estimated duration 1 month			

APD/ROW PROCESS

24. Attachments

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

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan  | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Patsy Clugston</i>	Name (Printed/Typed) Patsy Clugston	Date 5/8/00
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Title  
Sr. Regulatory/Proration Clerk

Approved by (Signature)	Name (Printed/Typed)	Date 7/3/00
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Title	Office
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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 Reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3166.3 and appeal pursuant to 43 CFR 3166.4.

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

NMOC

District I  
P.O. Box 1900, Hobbs, NM 88241-1900  
District II  
111 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 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 October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APN Number 30-045-30242		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 24281	Property Name SAN JUAN 32 FEDERAL 23		Well Number 1
OGRID No. 017654	Operator Name PHILLIPS PETROLEUM COMPANY		Elevation 6809'

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
H	23	32N	9W		1775'	NORTH	895'	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
H									

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
316.56 E/2	J		

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	S88°58'W	5225.88'	17	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Patsy Clugston Printed Name Sr. Regulatory/Proration Clerk Title May 8, 2000 Date	
4	3	2	1		
5	7	8	9		
12	11	10	9		
13	14	15	16		
S88°37'W		5252.28'	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.  11/09/99 Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number		

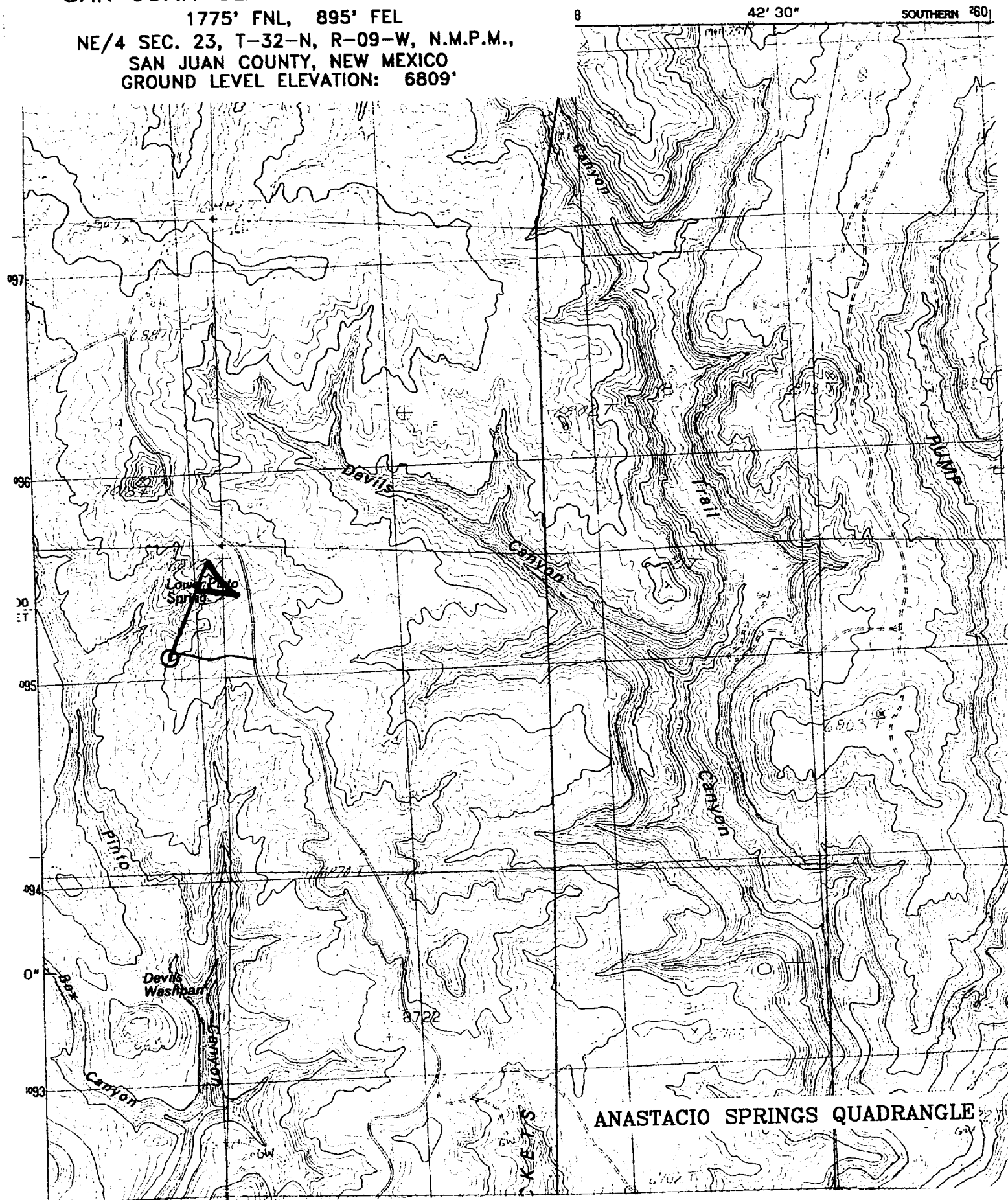
PHILLIPS PETROLEUM COMPANY

SAN JUAN 32 FEDERAL 23 No. 1

1775' FNL, 895' FEL

NE/4 SEC. 23, T-32-N, R-09-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO  
GROUND LEVEL ELEVATION: 6809'



## PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 32 Fed 23 No. 1

### DRILLING PROGNOSIS

1. Location of Proposed Well: Unit H, 1775' FNL & 895' FEL,  
Section 23, T32N, R9W
2. Unprepared Ground Elevation: @ 6809'
3. The geological name of the surface formation is San Jose.
4. Type of drilling tools will be rotary.
5. Proposed drilling depth is 3604'.
6. The estimated tops of important geologic markers are as follows:

<u>Naciamento - 809'</u>	
<u>Ojo Alamo - 2089'</u>	<u>Base of Coal - 3604'</u>
<u>Kirtland - 2109'</u>	<u>Picture Cliffs - 3614'</u>
<u>Fruitland - 3234'</u>	<u>Interm. Casing - 3394'</u>
<u>Top of Coal - 3394'</u>	<u>T. D. - 3604'</u>
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo - 2089' - 2109'</u>
Oil:	<u>none</u>
Gas:	<u>Fruitland Coal - 3259' - 3604'</u>
Gas & Water:	<u>Fruitland Coal - 3259' - 3604'</u>
8. The proposed casing program is as follows:

Surface String: 9-5/8", 36#, J/K-55 @ 200' \*

Intermediate String: 7", 20#, J/K-55 @ 3394'

Production Liner: 5-1/2", 3374' - TD (see details below)

\* The surface casing will be set at a minimum of 200', but could be set deeper if required to maintain hole stability.

## 9. Cement Program:

Surface String: 102.5 sx Type III cement. Cement to surface w/110% excess of casing/hole annulus volume w/Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx Cello-flake + 60.6% Fresh water (14.5 ppg). (1.41 cf/sx yield = 145 cf)

Intermediate String: **Lead Cement:** 388.2 sx Type III cement. Cement to surface - 110% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx Gilsonite + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 mixed + 0.02#/sx static free mixed at 12.0 ppg. (2.52 cf/sx yield = 978.3 cf)

**Tail:** 50 sx Type III cement + 0.25#/sx Cello-flake + 1% Calcium Chloride mixed at 14.5 ppg. (1.40 cf/sx yield = 70 cf)

Centralizer Program:

Surface: Total four (4) - 10' above shoe and top of 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> jts.

Intermediate: Total seven (7) - 10' above shoe and top of 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, & 1<sup>st</sup> jt. into shoe.

Turbulators: Total three (3) - one at 1<sup>st</sup> jt below Ojo Alamo and next 2 jts up.

Liner :

- If the coal is cleated a 5 1/2" 15.5# liner will be run in the open hole without being cemented.
- If the coal is not cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

11. Drilling Mud Prognosis: Surface - spud mud on surface casing.  
~~Intermediate~~ - fresh water w/polymer sweeps. Bentonite as required for viscosity.  
 Below Intermediate - air drilled.

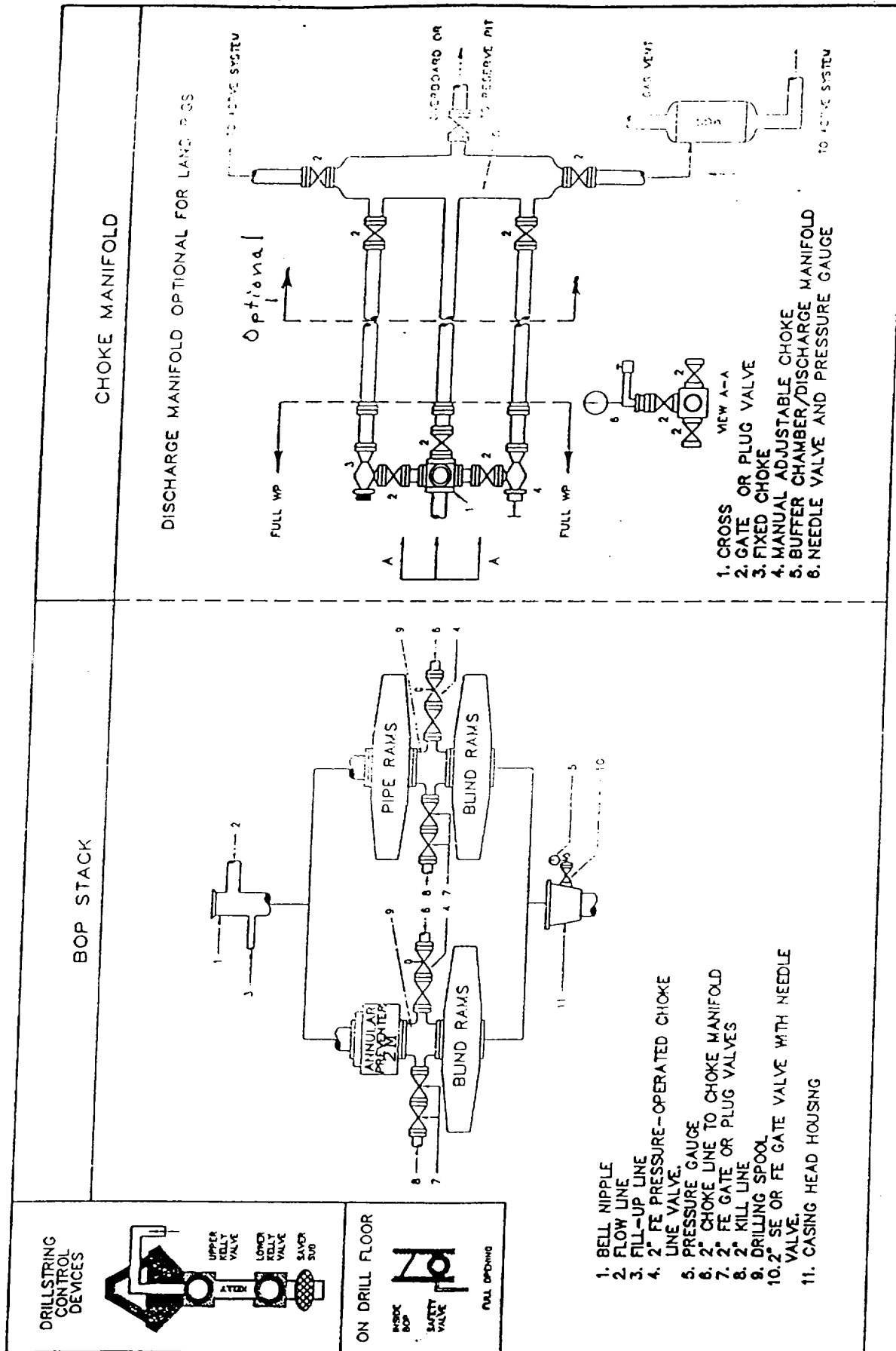


Fig. 2.4. Class 2 BOP and Choke Manifold.