

District I  
PO Box 1988, Hobbs, NM 88241-1988  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, NM 87504-2088

RECEIVED  
JAN 30 1995  
OIL CON. DIV.  
DIST. 3

Form C-101  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator name and Address Phillips Petroleum Company 5525 Highway 64, NBU 3004 Farmington, NM 87401		<sup>2</sup> OGRID Number 017654
		<sup>3</sup> API Number 30-039-25481
<sup>4</sup> Property Code 009256	<sup>5</sup> Property Name San Juan 29-5 Unit	<sup>6</sup> Well Number #53M

<sup>7</sup> 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	32	29N	5W		978	South	1611	East	Rio Arriba

<sup>8</sup> Proposed 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
0									

<sup>9</sup> Proposed Pool 1

<sup>10</sup> Proposed Pool 2

Basin Dakota 71599 S/320	Blanco Mesaverde 72319 E/320
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<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code -M/G	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 6500'
<sup>16</sup> Multiple yes	<sup>17</sup> Proposed Depth 8000'	<sup>18</sup> Formations DAKOTA/MV	<sup>19</sup> Contractor not contracted	<sup>20</sup> Spud Date sometime in 1995

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	9-5/8"	36#, J-55	350'	150 sx	surface
8-3/4"	7"	23#, J-55	3900'	500 sx	surface
6-1/4"	5-1/2"	17#, N-80	TD @ 8000'	800 sx total	* see note below

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

\* The 5-1/2" casings' cement is designed to cover openhole section (with 30% excess) and 100' inside 7" shoe (with 10% excess). See details attached to the cement program (see drilling prognosis).

BOP Equipment - See Attached.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

*Ed Hasely*

Printed name: Ed Hasely

Title: Envir./Regulatory Engineer

Date:

1-23-95

Phone:

505-599-3454

OIL CONSERVATION DIVISION

Approved by:

*James B. Buck*

Title:

DEPUTY OIL & GAS INSPECTOR, DIST. #3

Approval Date:

JAN 31 1995

Expiration Date:

JAN 31 1996

Conditions of Approval:

Attached ☐

DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III  
1000 Elia Brazos Rd., Artesia, N.M. 87410

DISTRICT IV  
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-25481	<sup>2</sup> Pool Code 72319 & 71599	<sup>3</sup> Pool Name DUAL MESA VERDE & DAKOTA
<sup>4</sup> Property Code 009256	<sup>5</sup> Property Name SAN JUAN 29-5	<sup>6</sup> Well Number 53M
<sup>7</sup> OGRID No. 017654	<sup>8</sup> Operator Name PHILLIPS PETROLEUM	<sup>9</sup> Elevation 6500

<sup>10</sup> 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	32	T. 29 N.	R. 5 W.		978	SOUTH	1611	EAST	RIO ARRIBA

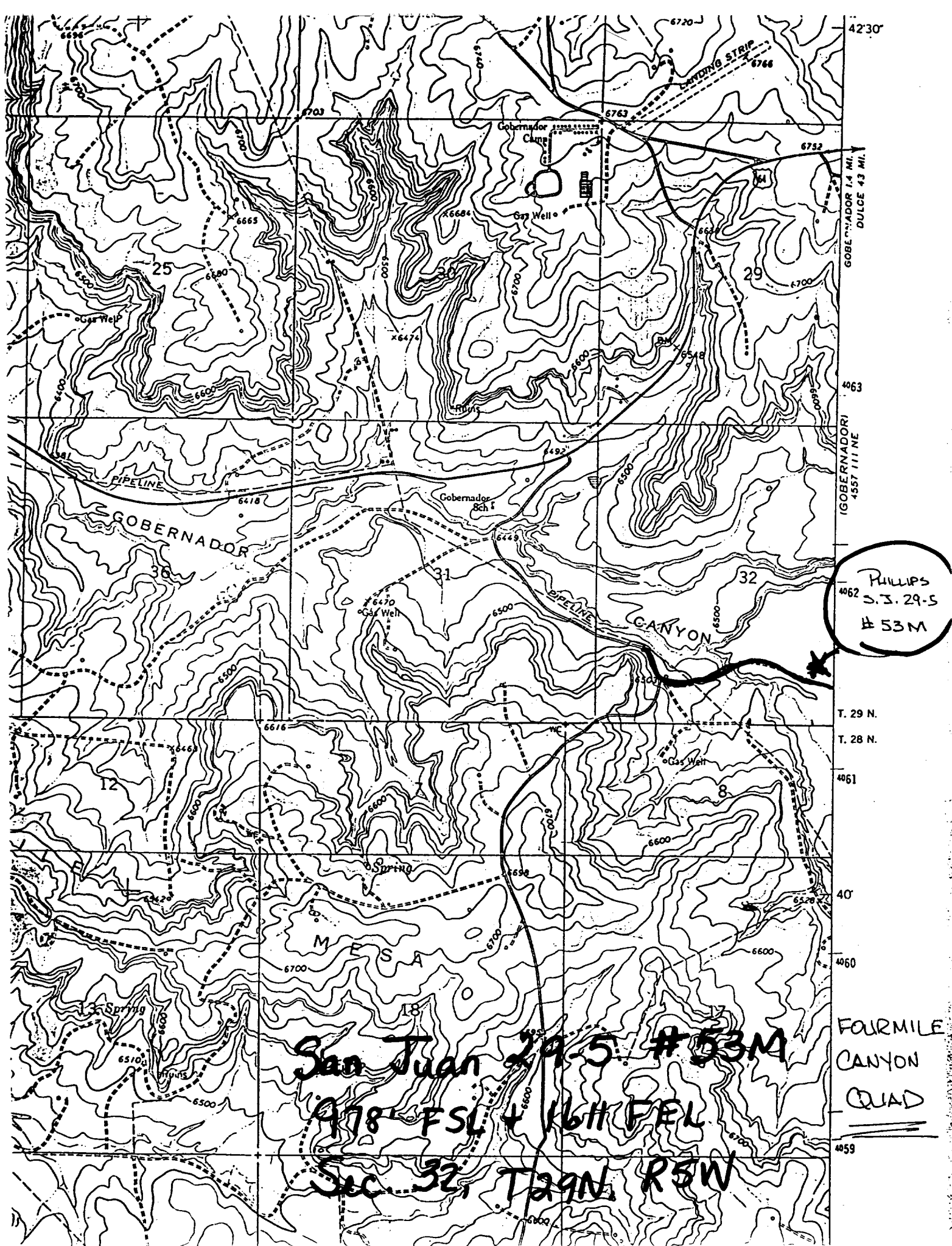
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

DK <sup>12</sup>Dedicated Acres 320 ac S/2  
MV <sup>13</sup>Joint or Infill I  
<sup>14</sup>Consolidation Code U  
<sup>15</sup>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

<div>16</div> <div>RECEIVED JAN 30 1995 OIL CON. DIV. DIST. 3</div> <div>W.C. Fd.Bc. U.S.G.L.O. 1914</div> <div>2708' (R) 2700.84' (M)</div> <div>2640' (R) 2637.03' (M)</div> <div>978'</div> <div>1611'</div> <div>Fd.Bc. U.S.G.L.O. 1914</div> <div>S 89-52 E</div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div>Ed Hasely</div> <div>Signature</div> <div>Ed Hasely</div> <div>Printed Name</div> <div>Environmental/Regulatory</div> <div>Title</div> <div>1-23-95</div> <div>Date</div> <div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>DECEMBER 20, 1994</div> <div>Date of Survey</div> <div>Signature and Seal of Registered Professional Land Surveyor</div> <div>8894</div> <div>Certificate Number</div>
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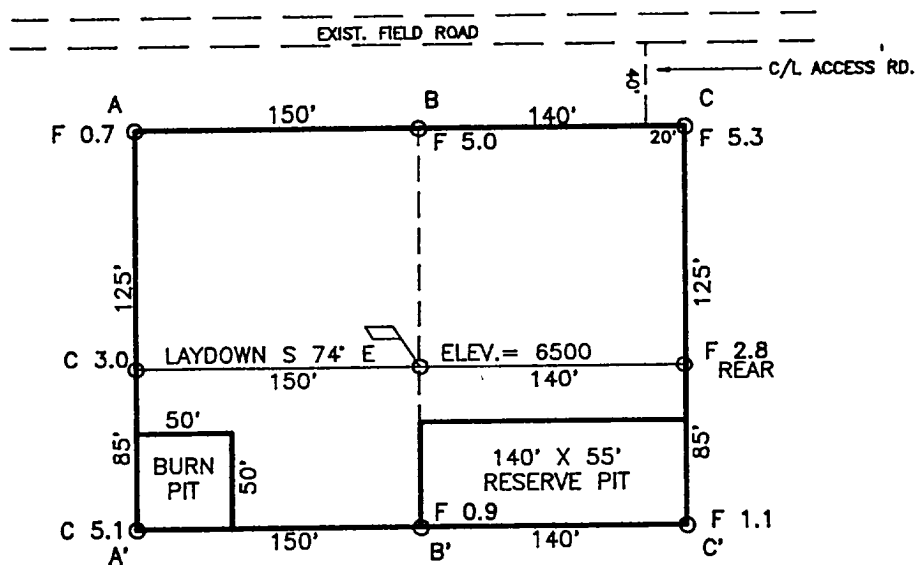
COMPANY: PHILLIPS PETROLEUM CO.

LEASE: SAN JUAN 29-5 No.53M

FOOTAGE: 978 FSL. 1611 FEL

SEC.: 32, TWN: T. 29 N., RNG: R. 5 W., NMPM

ELEVATION: 6500



A-A'		C/L			
ELEV.					
6530					
6520					
6510					
6500					
6490					
6480					
6470					

PHILLIPS PETROLEUM COMPANY

Preliminary 11/17/94

Well Name: San Juan 29-5 #53M

**DRILLING PROGNOSIS**

1. Location of Proposed Well: 978' FSL & 1611' FEL, Sec. 32, T-29-N,R-5-W, Rio Arriba County, New Mexico
2. Unprepared Ground Elevation: 6500'
3. The geologic name of the surface formation is San Jose.
4. Type of drilling tools will be rotary.
5. Proposed drilling depth is 8000'.
6. The estimated tops of important geologic markers are as follows:

<u>Ojo Alamo</u>	<u>2650'</u>	<u>Lewis</u>	<u>3650'</u>	<u>Mancos</u>	<u>6100'</u>
<u>Kirtland</u>	<u>2830'</u>	<u>Cliff House</u>	<u>5220'</u>	<u>Greenhorn</u>	<u>7560'</u>
<u>Fruitland</u>	<u>3115'</u>	<u>Menefee</u>	<u>5300'</u>	<u>Graneros</u>	<u>7618'</u>
<u>Pictured Cliffs</u>	<u>3410</u>	<u>Pt Lookout</u>	<u>5595'</u>	<u>Dakota</u>	<u>7680'</u>

7. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follow:

Water:	<u>Ojo Alamo - 2650' - 2830'</u>
Gas & Water:	<u>Fruitland - 3220' - 3400'</u>
Gas:	<u>Mesaverde - 5220' - 6000'</u>
Gas:	<u>Dakota - 7680' - TD '</u>

8. The proposed casing program is as follows:

Surface String 9-5/8", 36#, J-55 @ 350'  
Intermediate String 7", 23#, J-5 5 @ 3900'  
Production String 5-1/2", 17#, N-80 @ TD  
Production Tubing 2-3/8", 4.7#, J-55 @ 7900'  
1-1/4", 1.083# HS-70 coil tubing @ 5900'

9. **Cement Program:**

Surface String 150 sx Cl "B" cement w/2% CaCl2 & 1/4#/sk Cello-Seal; 15.6 ppg @ 1.18 ft3/sx yield; or quantity sufficient to circulate cement to surface.

Intermediate String Flush: 10 bbls mud flush, then 10 bbls fresh water.  
Lead cmt: 350 sx 65/35 POZ w/12% Bentonite, 2% CaCl2 & 1/4#/sk Cello-seal; 12.0 ppg @ 2.18 ft3/sk yield; or quantity sufficient to circulate cement to surface after tail cement added.

Intermediate String (Cont):

Tail: 150 sx Cl "B" Neat Cement + 1/4#/sx Cello-flake +2% CaCl<sub>2</sub>; 15.6 ppg @ 1.18 ft<sup>3</sup>/sx yield; or quantity sufficient to circulate cement to surface.

Production String: Flush: 20 bbls mud flush, then 10 bbls fresh water.

Lead = 650 sx 65/35 POZ + 12% gel + 1/4#/sx Flocele + 2% CaCl<sub>2</sub>, mixed at 12.0 ppg and 2.18 ft<sup>3</sup>/sx.

Tail = 150 sx Class B + 1/4#/sx Flocele + 2% CaCl<sub>2</sub>, mixed at 15.6 ppg and 1.18 ft<sup>3</sup>/sx.

Cement is designed to cover openhole section (with 30% excess) and 100' inside 7" shoe (with 10% excess).

Centralizer Program:

Surface: Centralizer at 10' above shoe. Top of 2nd, 4th and 6th joints.

Intermediate: Centralizer at 10' above shoe. Top of 2nd Jt., Top of 4th Jt.  
Top of 6th Jt., Top of 8th Jt.

Turbulator at 1 Jt. below Ojo Alamo

Turbulator at top of next joint.

Turbulator at top of next joint.

Production: Centralizer at 10' above shoe. Top of 2nd Jt., Top of 4th Jt.  
Top of 6th Jt., Top of 8th Jt.

10. Production Control Equipment: Schematic diagrams thereof showing sizes, pressure ratings (or) API series are enclosed within the APD packet.

11. Drilling Mud Prognosis: Surface to Bottom of 8-3/4" Hole  
Low solids, non-dispersed, 9.0 ppg+, fresh water base mud.  
6-1/4" Hole Section  
Air or Gas Drilled

12. The testing, logging, and coring programs are as follows:

D.S.T.'s or cores: None

Logs: Induction, GR-Density-Neutron, Temperature

Special Tests: None

13. Anticipate no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H<sub>2</sub>S equipment will be used.

14. The anticipated starting date will be sometime in sometime in 1995 with duration of operations for approximately 30 days thereafter.

## **BOP AND RELATED EQUIPMENT CHECK LIST**

### **3M SYSTEM:**

Annular preventer, double ram, or two rams with one being blind and one being a pipe ram\*

Kill line (2-inch minimum)

1 Kill line valve (2-inch minimum)

1 Choke line valve

2 Chokes (refer to diagram in Attachment 1)

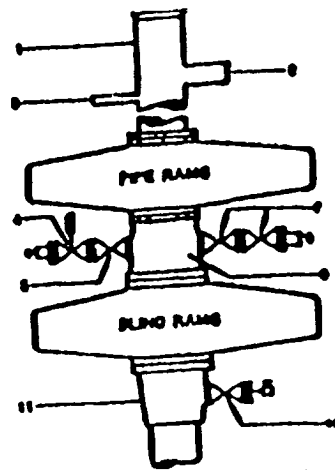
Upper kelly cock valve with handle available

Safety valve and subs to fit all drill strings in use

Pressure gauge on choke manifold

2 inch minimum choke line

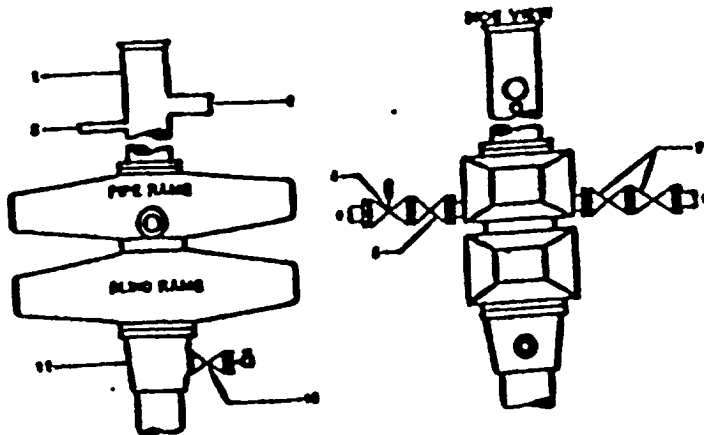
Fill-up line above the uppermost preventer



1. BELL NIPPLE
2. FLOW LINE
3. FILLUP LINE
4. 2" PE PRESSURE OPERATED CHOKE LINE VALVE
5. 2" PE GATE VALVE
6. 2" PE CHOKE LINE TO MANIFOLD
7. 2" PE GATE VALVE
8. 2" PE KILL LINE
9. DRILLING SPOOL
10. 2" BE OR PE GATE VALVE WITH NEEDLE VALVE
11. CASING HEAD HOUSING

NOTE: THE DRILLING SPOOL MAY BE LOCATED BELOW BOTH SETS OF RAMS IF A DOUBLE PREVENTER IS USED AND IT DOES NOT HAVE SUITABLE OUTLETS BETWEEN RAMS

Figure 7-9. Standard Hydraulic Blowout Preventer Assembly  
3 M Working Pressure Alternative 1



1. BELL NIPPLE
2. FLOW LINE
3. FILLUP LINE
4. 2" PE PRESSURE OPERATED CHOKE LINE VALVE
5. 2" PE GATE VALVE
6. 2" PE CHOKE LINE TO MANIFOLD
7. 2" PE GATE VALVE
8. 2" PE KILL LINE
9. DRILLING SPOOL
10. 2" BE OR PE GATE VALVE WITH NEEDLE VALVE
11. CASING HEAD HOUSING

Figure 7-10. Standard Hydraulic Blowout Preventer Assembly  
3 M Working Pressure Alternative 3 (without Drilling Spool)





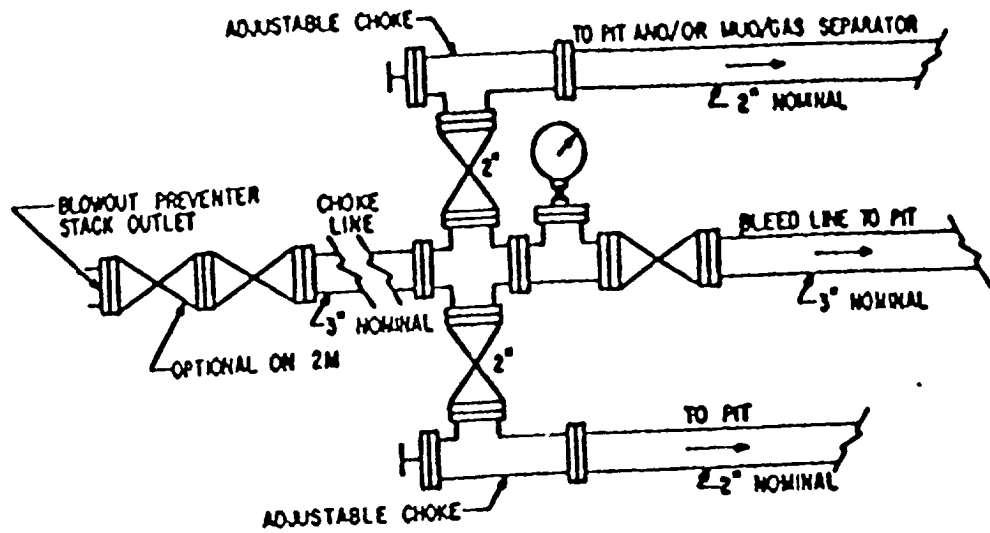


FIG. 3.A.1  
TYPICAL CHOKE MANIFOLD ASSEMBLY  
FOR 2M AND 3M RATED WORKING  
PRESSURE SERVICE — SURFACE INSTALLATION