

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. NM-03188
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator CONOCOPHILLIPS COMPANY Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com		7. If Unit or CA Agreement, Name and No. *
3a. Address 4001 PENBROOK ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352	8. Lease Name and Well No. SAN JUAN 29-5 UNIT 22C
4. Location of Well (Report location clearly and in accordance with any State requirements: *) At surface SWSW 305FSL 220FWL At proposed prod. zone SWSW 305FSL 220FWL		9. API Well No. 30-039-29464
14. Distance in miles and direction from nearest town or post office*		10. Field and Pool, or Exploratory BLANCO MESAVERDE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease 1280.00	11. Sec., T., R., M., or Blk. and Survey or Area M Sec 8 T29N R5W Mer NMP
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5999 MD	12. County or Parish RIO ARRIBA ✓
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6516 GL	22. Approximate date work will start	13. State NM
23. Estimated duration		17. Spacing Unit dedicated to this well w/ 520
20. BLM/BIA Bond No. on file		

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 (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY Ph: 915.368.1352	Date 02/16/2005
Title AGENT		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 4-14-05
Title AEM	Office FFO	

Application approval does not warrant or certify 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.

Additional Operator Remarks (see next page)

Electronic Submission #54152 verified by the BLM Well Information System  
For CONOCOPHILLIPS COMPANY, sent to the Farmington

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

NMOCD

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer 00, 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  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 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

*API Number 30-039-29464		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 31325	*Property Name SAN JUAN 29-5 UNIT		*Well Number 22C
*OGRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6516'

<sup>10</sup> Surface Location

UL or lot no. M	Section 8	Township 29N	Range 5W	Lot Idn	Feet from the 305	North/South line SOUTH	Feet from the 220	East/West line WEST	County 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
<sup>12</sup> Dedicated Acres 320.0 Acres - W/2					<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<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><p>16</p><p>5290.56'</p><p>LEASE NM-03188</p><p>8</p><p>5280.00'</p><p>220'</p><p>LAT: 36°44.0232' N LONG: 107°23.3060' W DATUM: NAD27</p><p>305' 2643.96'</p><p>2643.96'</p></div>	<div><p><sup>17</sup> OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p><i>Vicki Westby (pj)</i> Signature Vicki R. Westby Printed Name Sr. Analyst Title 2/14/05 Date</p></div>
	<div><p><sup>18</sup> SURVEYOR CERTIFICATION</p><p>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.</p><p>Survey Date: AUGUST 11, 2004</p><p>Signature and Seal of Professional Surveyor</p><div><p>JASON C. EDWARDS NEW MEXICO 15269 REGISTERED PROFESSIONAL SURVEYOR</p></div><p><i>JASON C. EDWARDS</i> Certificate Number 15269</p></div>

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO.
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator ConocoPhillips Company		6. State Oil & Gas Lease No.
3. Address of Operator 4001 Penbrook, Odessa, TX 79762		7. Lease Name or Unit Agreement Name SAN JUAN 29-5 UNIT
4. Well Location Unit Letter M 305 feet from the South line and 220 feet from the West line Section 8 Township 29N Range 5W NMPM Rio Arriba County		8. Well Number 22C
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6516 GL		9. OGRID Number 217817
		10. Pool name or Wildcat BLANCO MESAVERDE

Pit or Below-grade Tank Application <input checked="" type="checkbox"/> Closure <input type="checkbox"/>		
Pit type DRILL	Depth to Groundwater <50'	Distance from nearest fresh water well 200-1000'
Liner Thickness: mil	Below-Grade Tank: Volume bbls	Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 11.03. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The pit will be constructed and closed in accordance with Rule 50 and as per the Nov. 1, 2004 Guidelines. See the attached diagram that details the location of the pit in reference to the proposed wellhead. The drill pit will be lined. The drill pit will be closed after the well has been completed. The solids left after the water has been disposed of will be sampled and NMOCD approval will be obtained prior to closure of this pit.

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 Vicki Westby

TITLE Staff Agent

DATE 2/14/2005

Type or print name  
For State Use Only

E-mail address:

Telephone No.

APPROVED BY:  
Conditions of Approval (if any):

TITLE

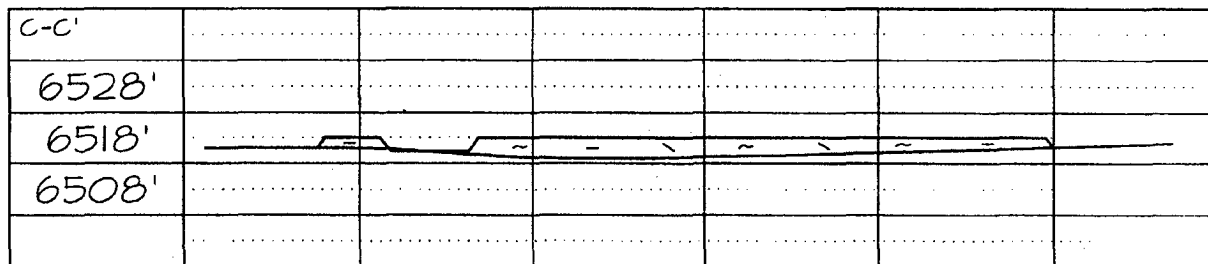
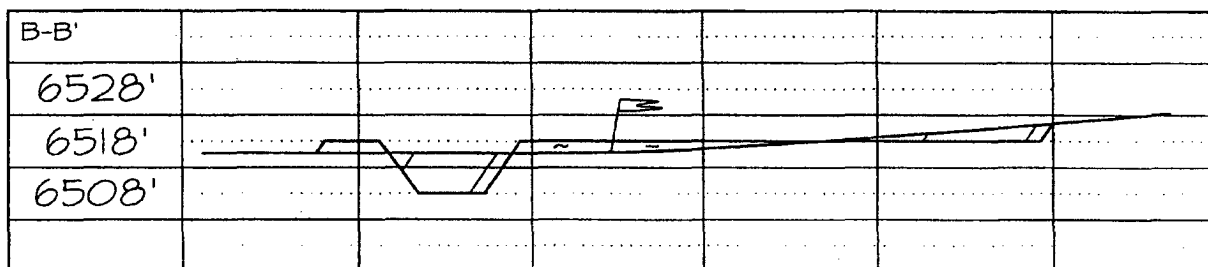
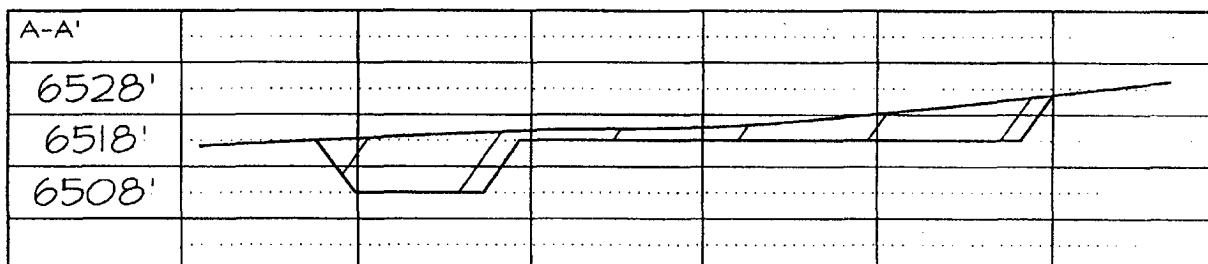
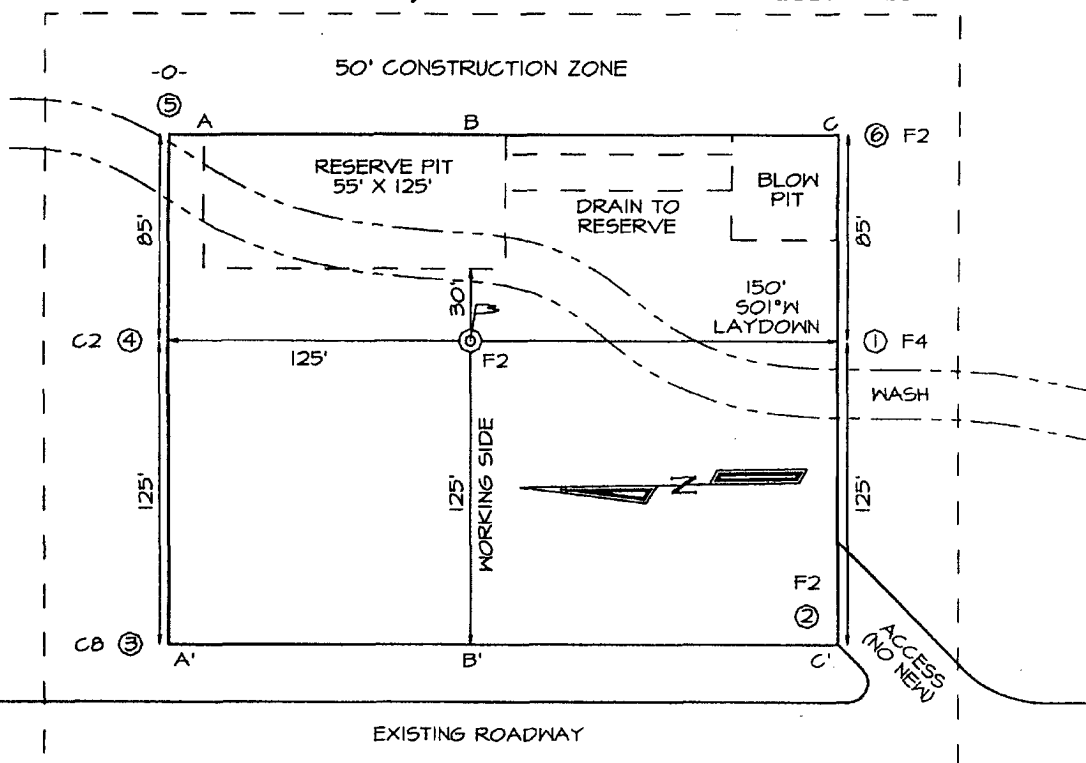
DEPUTY OIL & GAS INSPECTOR, DIST. 22

APR 14 2005  
DATE

LATITUDE: 36.73372° N  
LONGITUDE: 107.38843° W  
DATUM: NAD1927

**PLAT NOTE:**

\*SURFACE OWNER\*  
Bureau of Land  
Management





San Juan Business Unit

**PROJECT PROPOSAL - New Drill / Sidetrack**

SAN JUAN 29-5 22C

Lease:		AFE #:		AFE \$:	
Field Name: hPHILLIPS 29-5		Rig:	State: NM	County: RIO ARRIBA	API #:
Geoscientist: Glaser, Terry J		Phone: (832)486-2332	Prod. Engineer: Moody, Craig E.		Phone: 486-2334
Res. Engineer: Johnson, Tom B.		Phone: (832)-486-2347	Proj. Field Lead: Fransen, Eric E.		Phone:
<b>Primary Objective (Zones):</b>					
<b>Zone</b>	<b>Zone Name</b>				
RON	BLANCO MESAVERDE (PRORATED GAS)				
<b>Location: Surface</b>					
Latitude: 36.73	Longitude: -107.39	X:	Y:	Section: 8	Range: 5W
Footage X: 220 FWL	Footage Y: 305 FSL	Elevation: 6516	(FT)	Township: 29N	
Tolerance:					
Location Type: Summer Only		Start Date (Est.):	Completion Date:	Date In Operation:	
Formation Data: Assume KB = 6529 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
SURFACE CSG	213	6316	<input type="checkbox"/>		
NCMT	1429	5100	<input type="checkbox"/>		
OJAM	2659	3870	<input type="checkbox"/>		
KRLD	2809	3720	<input type="checkbox"/>		
FRLD	3159	3370	<input type="checkbox"/>		
PCCF	3459	3070	<input type="checkbox"/>		
LEWS	3659	2870	<input type="checkbox"/>		
Intermediate Casing	3759	2770	<input type="checkbox"/>		
CHRA	4464	2065	<input type="checkbox"/>		
CLFH	5279	1250	<input type="checkbox"/>		
MENF	5379	1150	<input type="checkbox"/>		
PTLK	5649	880	<input type="checkbox"/>		
MNCS	5899	630	<input type="checkbox"/>		
Total Depth	5999	530	<input type="checkbox"/>		
Remarks					
12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.					
Possible water flows.					
Possible gas.					
8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.					
Gas; possibly wet					
Gas.					
Gas.					
6-1/4" hole. 4-1/2", 10.5 lb/ft, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT to 150' above the Ojo Alamo & GR to surface. CBL to 250' above top of cement.					
<b>Reference Wells:</b>					
Reference Type	Well Name	Comments			

**PROJECT PROPOSAL - New Drill / Sidetrack**

**SAN JUAN 29-5 22C**

<b>Logging Program:</b>					
Intermediate Logs: <input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo					
TD Logs: <input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input checked="" type="checkbox"/> TDT <input checked="" type="checkbox"/> Other					
Cement Bond Log					
Additional Information:					
<b>Log Type</b>	<b>Stage</b>	<b>From (Ft)</b>	<b>To (Ft)</b>	<b>Tool Type/Name</b>	<b>Remarks</b>

Comments: General/Work Description -

Drilling Mud Program:  
Surface: Spud Mud.  
Intermediate: Fresh water mud with bentonite and polymer as needed.  
Below intermediate: Air drilling media.

**San Juan 29-5 # 22C  
Halliburton Cementing Program**

**SURFACE CASING :**

Drill Bit Diameter	12.25"	
Casing Outside Diameter	9.625"	Casing Inside Diam. 9.001"
Casing Weight	32.3	ppf
Casing Grade	H-40	
Shoe Depth	230'	
Cement Yield	1.21	cuft/sk
Excess Cement	125	%
Cement Required	140	sx

SHOE 230 ', 9.625 ", 32.3 ppf, H-40 STC

**INTERMEDIATE CASING :**

Drill Bit Diameter	8.75"	
Casing Outside Diameter	7"	Casing Inside Diam. 6.456"
Casing Weight	20	ppf
Casing Grade	J-55	
Shoe Depth	3759'	
Lead Cement Yield	2.88	cuft/sk
Lead Cement Excess	150	%
Tail Cement Length	751.8'	
Tail Cement Yield	1.33	cuft/sk
Tail Cement Excess	150	%
Lead Cement Required	377	sx
Tail Cement Required	220	sx

SHOE 3759 ', 7 ", 20 ppf, J-55 STC

**PRODUCTION CASING :**

Drill Bit Diameter	6.25"	
Casing Outside Diameter	4.5"	Casing Inside Diam. 4.000"
Casing Weight	10.5	ppf
Casing Grade	J-55	
Top of Cement	3559'	200' inside intermediate casing
Shoe Depth	5999'	
Cement Yield	1.45	cuft/sk
Cement Excess	50	%
Cement Required	254	sx

SHOE 5999 ', 4.5 ", 10.5 ppf, J-55 STC

**SAN JUAN 29-5 #22C**
**OPTION 1**

9-5/8 Surface Casing	
Cement Recipe	Class C Standard Cement
	+ 3% Calcium Chloride
	+0.25 lb/sx Flocele
Cement Volume	140 sx
Cement Yield	1.21 cuft/sx
Slurry Volume	171.5 cuft
	30.6 bbls
Cement Density	15.6 ppg
Water Required	5.29 gal/sx

7" Intermediate Casing	
Lead Slurry	
Cement Recipe	Standard Cement
	+ 3% Econolite (extender)
	+ 10 lb/sx Pheno Seal
Cement Required	377 sx
Cement Yield	2.88 cuft/sx
Slurry Volume	1084.3 cuft
	193.1 bbls
Cement Density	11.5 ppg
Water Required	16.85 gal/sx

7" Intermediate Casing	
Tail Slurry	
Cement Slurry	50 / 50 POZ:Standard Cement
	+ 2% Bentonite
	+ 6 lb/sx Pheno Seal
Cement Required	220 sx
Cement Yield	1.33 cuft/sx
Slurry Volume	292.2 cuft
	52.0 bbls
Cement Density	13.5 ppg
Water Required	5.52 gal/sx

4-1/2" Production Casing	
Cement Recipe	50 / 50 POZ:Standard Cement
	+ 3% Bentonite
	+ 3.5 lb/sx PhenoSeal
	+ 0.2% CFR-3 Friction Reducer
	+ 0.1% HR-5 Retarder
	+ 0.8% Halad-9 Fluid Loss Additive
Cement Quantity	254 sx
Cement Yield	1.45 cuft/sx
Cement Volume	368.3 cuft
	65.6 bbls
Cement Density	13.1 ppg
Water Required	6.47 gal/sx

**OPTION 2**

9-5/8 Surface Casing	
Cement Recipe	Class G Cement
	+ 3% S001 Calcium Chloride
	+ 0.25 lb/sx D029 Cellophane Flakes
Cement Volume	148 sx
Cement Yield	1.16 cuft/sx
Cement Volume	171.5 cuft
Cement Density	15.8 ppg
Water Required	4.983 gal/sx

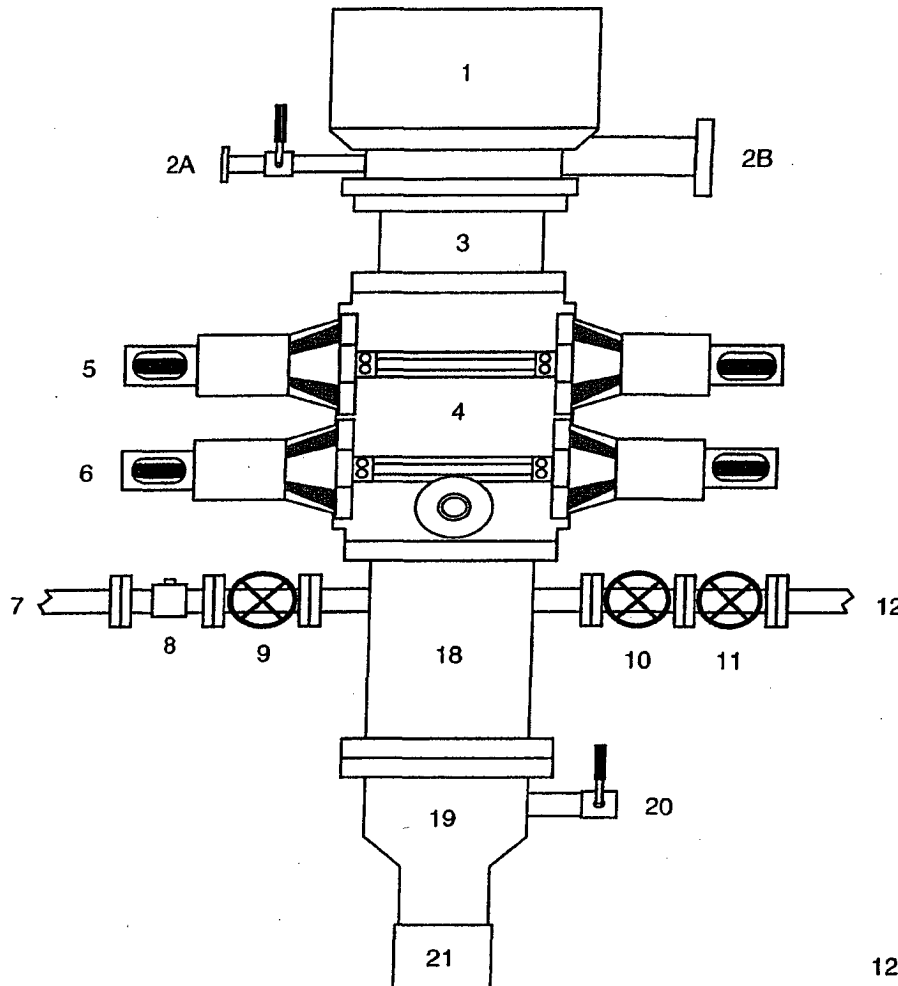
7" Intermediate Casing	
Lead Slurry	
Cement Recipe	Class G Cement
	+ 0.25 lb/sx D029 Cellophane Flakes
	+ 3% D079 Extender
	+ 0.20% D046 Antifoam
	+ 10 lb/sx Pheno Seal
Cement Required	399 sx
Cement Yield	2.72 cuft/sx
Slurry Volume	1084.3 cuft
	193.1 bbls
Cement Density	11.7 ppg
Water Required	15.74 gal/sx

7" Intermediate Casing	
Tail Slurry	
Cement Slurry	50 / 50 POZ:Class G Cement
	+ 0.25 lb/sx D029 Cellophane Flakes
	+ 2% D020 Bentonite
	+ 1.5 lb/sx D024 Gilsonite Extender
	+ 2% S001 Calcium Chloride
	+ 0.10% D046 Antifoam
	+ 6 lb/sx Pheno Seal
Cement Required	223 sx
Cement Yield	1.31 cuft/sx
Slurry Volume	292.2 cuft
	52.0 bbls
Cement Density	13.5 ppg
Water Required	5.317 gal/sx

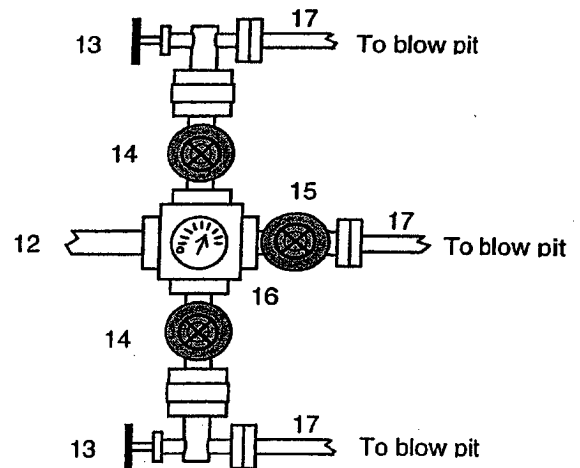
4-1/2" Production Casing	
Cement Recipe	50 / 50 POZ:Class G Cement
	+ 3% D020 Bentonite
	+ 1.0 lb/sx D024 Gilsonite Extender
	+ 0.25 lb/sx D029 Cellophane Flakes
	+ 3.5 lb/sx PhenoSeal
	+ 0.25% D167 Fluid Loss
	+ 0.15% D065 Dispersant
	+ 0.1% D046 Antifoamer
Cement Quantity	258 sx
Cement Yield	1.43 cuft/sx
Cement Volume	368.3 cuft
	65.6 bbls
Cement Density	13 ppg
Water Required	6.51 gal/sx

# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

## For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



1. Rotating Head
- 2A. Fill-up Line & valve
- 2B. Flowline
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10. Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19. Casing Head "A" Section
20. Casing Head "A" Section 2" Valve
21. 9 5/8" Casing Collar



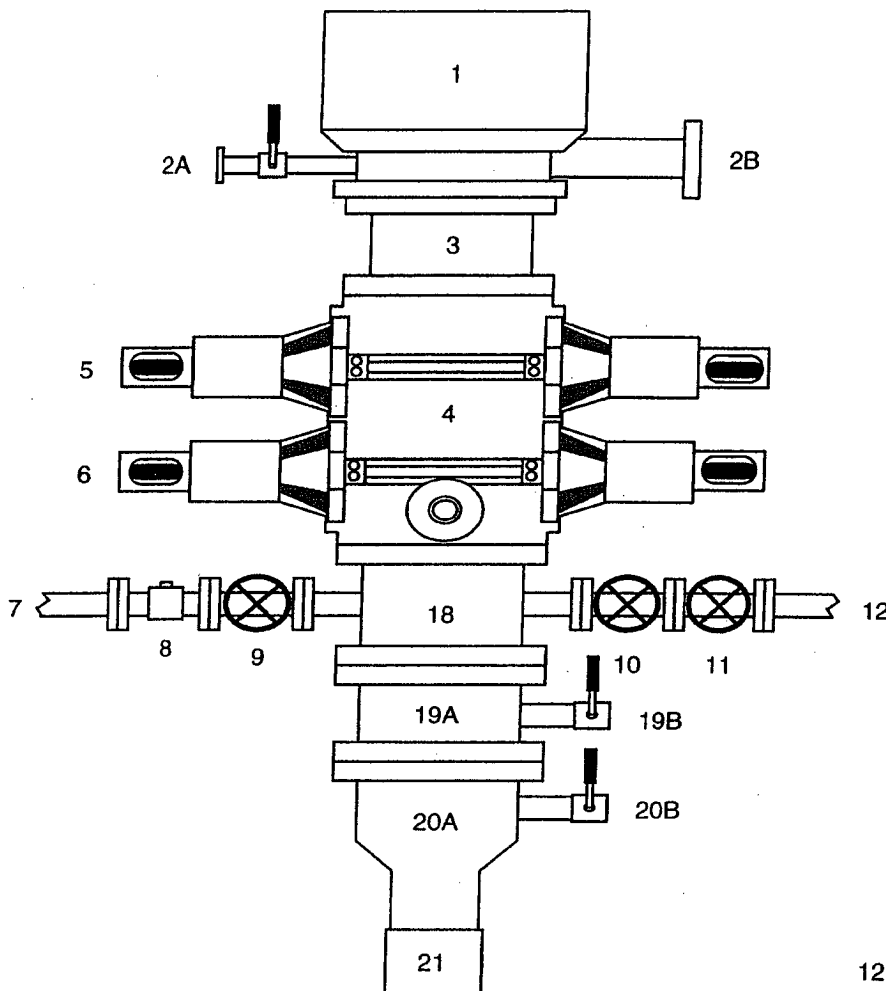
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed, and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory requirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then an 8-3/4" hole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

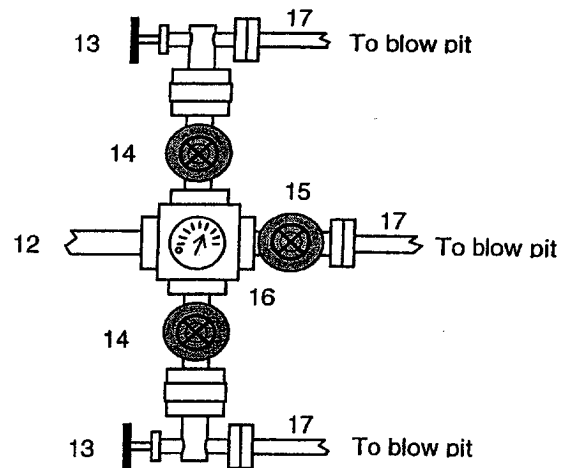
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



1. Rotating Head
- 2A. Fill-up Line & valve
- 2B. Bleeie Line (for Air Drilling)
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10. Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
- 19A Csg Spool "B" Section (11", 3M)
- 19B "B" Section Csg Valve (2", 3M)
- 20A Csg Head "A" Section (11", 3M)
- 20B "A" Section Csg Valve (2", 3M)
21. 9 5/8" Casing Collar



After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use