

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-03040
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		7. If Unit or CA Agreement, Name and No.
Contact: VICKI WESTBY E-Mail: VICKI.R.WESTBY@CONOCOPHILLIPS.COM		8. Lease Name and Well No. SAN JUAN 29-6 UNIT 6C
3a. Address 4001 PENBROOK ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915-368-1352	9. API Well No. 3003929337
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SWSW 380FSL 10FWL At proposed prod. zone SWSW 380FSL 10FWL		10. Field and Pool, or Exploratory BLANCO MESAVERDE
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T29N R6W Mer NMP
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 320.00	12. County or Parish RIO ARRIBA ✓
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5778 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6385	22. Approximate date work will start	17. Spacing Unit dedicated to this well W/2
20. BLM/BIA Bond No. on file		
23. Estimated duration		

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
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 11/03/2004
Title AGENT		
Approved by (Signature) <i>Wayne Townsend</i>	Name (Printed/Typed) Wayne Townsend	Date 12/15/07
Title Acting AFM	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 #50678 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Farmington

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

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

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

NMOC

District I
PO Box 1950, 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 30-039-29337		*Pool Code 72319	*Pool Name BLANCO MESAVERDE	
*Property Code 31326		*Property Name SAN JUAN 29-6 UNIT		*Well Number 6C
*OGRID No. 217817		*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6385'

10 Surface Location

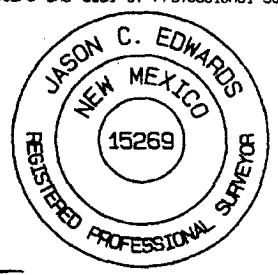
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	29N	6W		380	SOUTH	10	WEST	RIO ARriba

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 320.0 Acres - W/2	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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>5278.68'</div> <div>LEASE NM-03040</div> <div>5280.00'</div> <div>21</div> <div>5280.00'</div> <div>10'</div> <div>LAT: 36°42.2983' N LONG: 107°28.6007' W DATUM: NAD27</div> <div>380'</div> <div>5280.00'</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><u>Vicki Westby (pf)</u> Signature Vicki R. Westby Printed Name Sr. Analyst Title 11/3/04 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>Date of Survey: JUNE 7, 2004</div> <div>Signature and Seal of Professional Surveyor</div> <div> JASON C. EDWARDS Certificate Number 15269</div>
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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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

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.)		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 29-6 UNIT
4. Well Location Unit Letter M 380 feet from the SOUTH line and 10 feet from the WEST line Section 21 Township 29N Range 6W NMPM RIO ARRIBA County		8. Well Number 6C
I 1. Elevation (Show whether DR, RKB, RT, GR, etc.) 6385 GL		9. OGRID Number 217817
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> Closure <input type="checkbox"/>		10. Pool name or Wildcat BLANCO MESAVERDE
Pit type DRILL Depth to Groundwater 40' Distance from nearest fresh water well 0.5 MILE Distance from nearest surface water 150'		
Liner Thickness: 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: ☐

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

ConocoPhillips' Generic Pit Plan is on file at the NMOCD in Aztec, NM. 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 11/03/04

Type or print name

E-mail address:

Telephone No.

For State Use Only

DEPUTY OIL & GAS INSPECTOR, DIST. 40

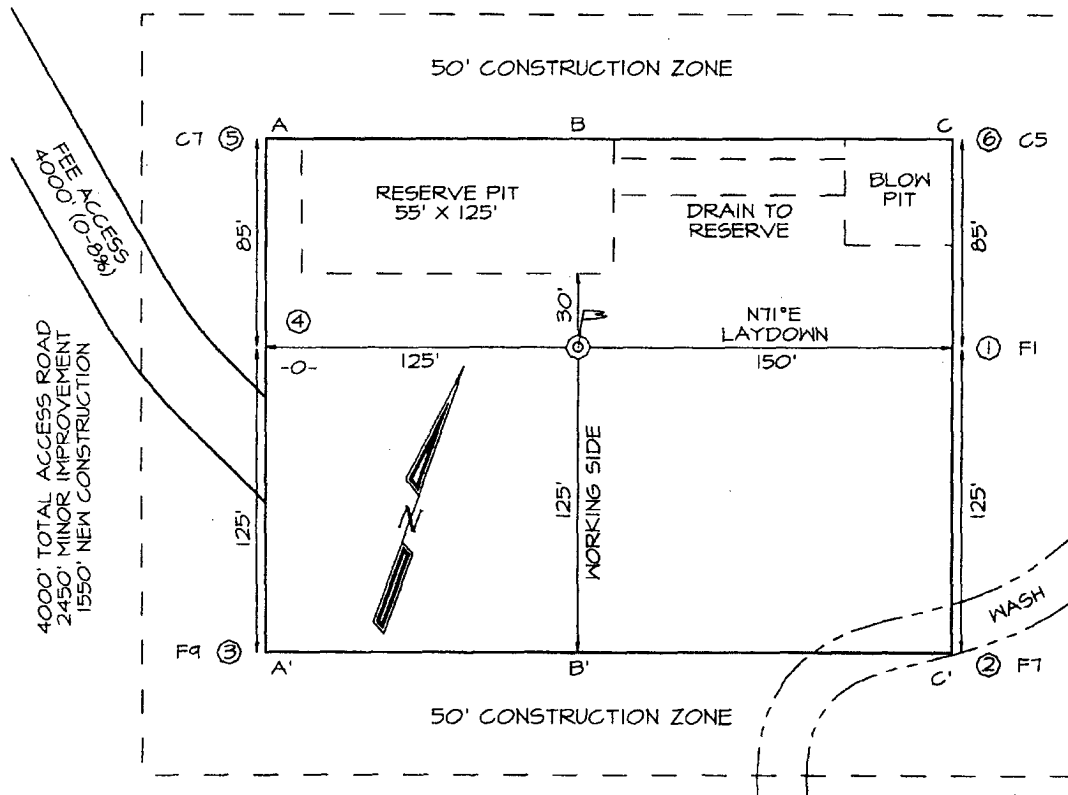
DEC 20 2004

APPROVED BY: 
Conditions of Approval (if any):

TITLE

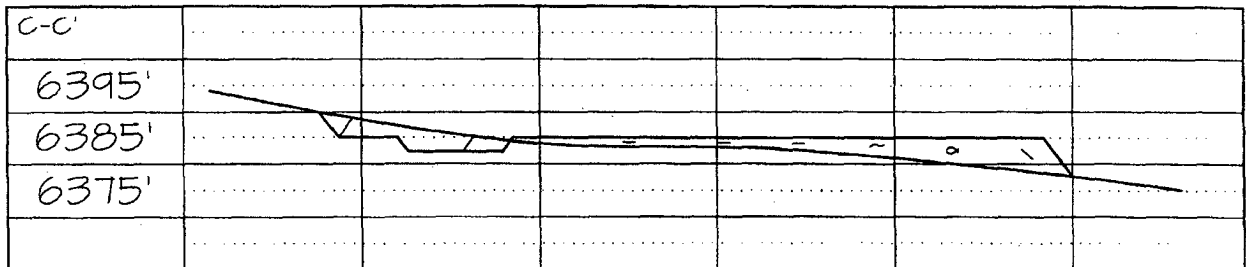
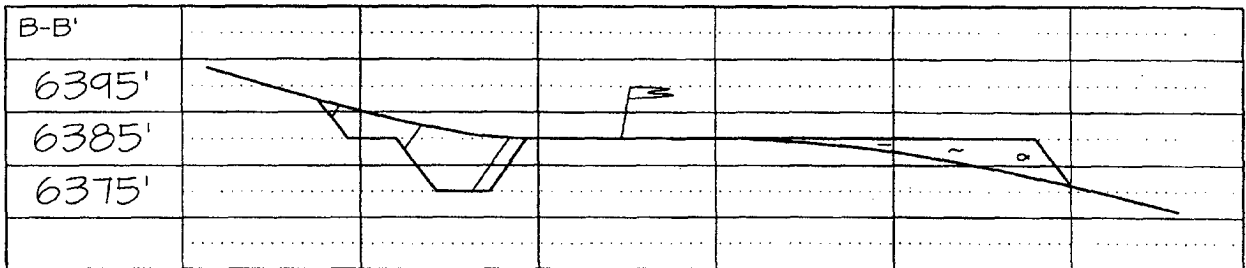
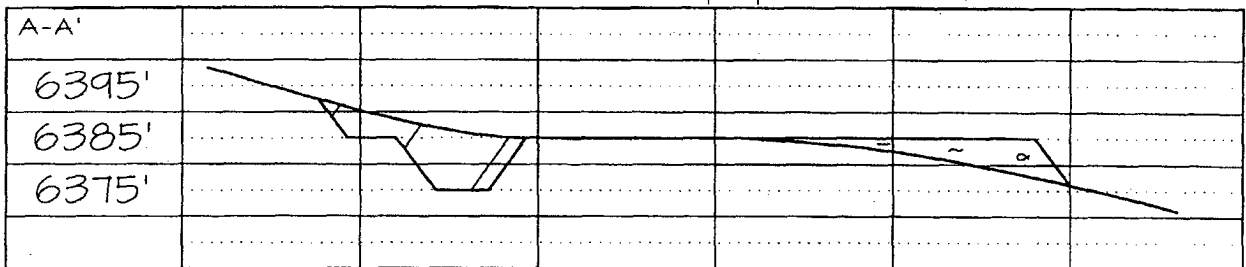
DATE

CONOCOPHILLIPS COMPANY SAN JUAN 29-6 UNIT #6C
380' FSL & 10' FWL, SECTION 21, T29N, R6W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6385'



LATITUDE: 36.70497° N
LONGITUDE: 107.47668° W
 DATUM: NAD1927

PLAT NOTE:
 SURFACE OWNER
 FEE Land: Pat Smith



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 6C

Lease:		AFE #: WAN.CNV.4145		AFE \$:	
Field Name: hPHILLIPS 29-6	Rig: 320-2419	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:		

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface					Straight Hole	
Latitude: 36.70	Longitude: -107.48	X:	Y:	Section: 21	Range: 6W	
Footage X: 10 FWL	Footage Y: 380 FSL	Elevation: 6385	(FT)	Township: 29N		

Tolerance:

Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6398 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	213	6185	<input type="checkbox"/>			12 1/4" Hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	1258	5140	<input type="checkbox"/>			
OJAM	2398	4000	<input type="checkbox"/>			Possible water flows.
KRLD	2608	3790	<input type="checkbox"/>			
FRLD	2958	3440	<input type="checkbox"/>			Possible gas.
PCCF	3268	3130	<input type="checkbox"/>			
LEWS	3468	2930	<input type="checkbox"/>			
Intermediate Casing	3568	2830	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4238	2160	<input type="checkbox"/>			
CLFH	5053	1345	<input type="checkbox"/>	575		Gas; possibly wet
MENF	5138	1260	<input type="checkbox"/>			Gas.
PTLK	5428	970	<input type="checkbox"/>			Gas.
MNCS	5678	720	<input type="checkbox"/>			
Total Depth	5778	620	<input type="checkbox"/>			6 1/4" Hole. 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

Additional Information:

Comments: General/Work Description -

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist/nitrogen drilling media with foamer, polymer, & corrosion inhibitor as needed

Printed on: 11/3/2004 8:21:27 AM

San Juan 29-6 # 6C

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	147	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	3568'	
Lead Cement Yield	2.88	cuft/sk
Lead Cement Excess	150	%
Tail Cement Length	713.6'	
Tail Cement Yield	1.33	cuft/sk
Tail Cement Excess	150	%
Lead Cement Required	356	sx
Tail Cement Required	209	sx

SHOE 3568', 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	3368'	200' inside intermediate casing
Shoe Depth	5778'	
Cement Yield	1.45	cuft/sk
Cement Excess	50	%
Cement Required	251	sx

SHOE 5778', 4.5", 10.5 ppf, J-55 STC

OPTION 1

9-5/8 Surface Casing	
Cement Recipe	Class C Standard Cement + 3% Calcium Chloride +0.25 lb/sx Flocele
Cement Volume	147.0 sx
Cement Yield	1.21 cuft/sx
Slurry Volume	178.0 cuft 0.0 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	356 sx
Cement Yield	2.88 cuft/sx
Slurry Volume	1025.1 cuft 182.8 bbls
Cement Density	11.5 ppg
Water Required	16.91 gal/sx

7" Intermediate Casing	
Tail Slurry	
Cement Slurry	50 / 50 POZ:Standard Cement + 2% Bentonite + 6 lb/sx Pheno Seal
Cement Required	209 sx
Cement Yield	1.33 cuft/sx
Slurry Volume	277.8 cuft 49.5 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	251 sx
Cement Yield	1.45 cuft/sx
Cement Volume	363.7 cuft 64.8 bbls
Cement Density	13.1 ppg
Water Required	6.47 gal/sx

OPTION 2

9-5/8 Surface Casing	
Cement Recipe	Class G Standard Cement + 2% 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

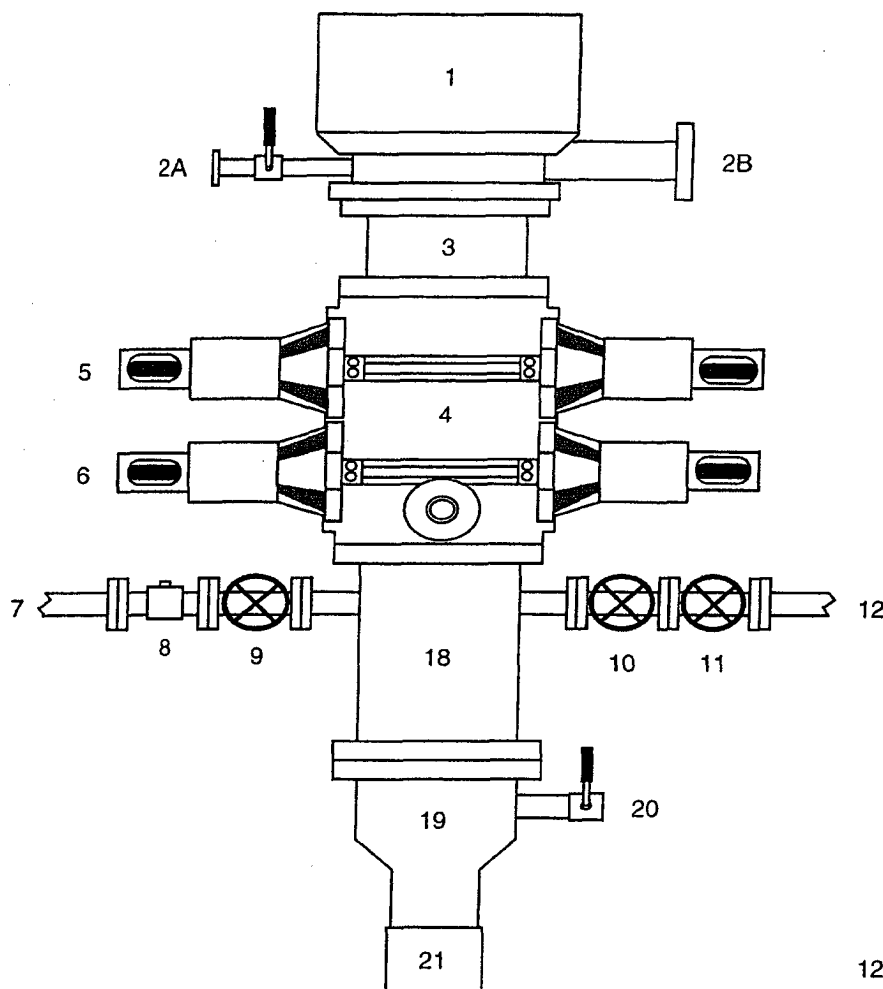
7" Intermediate Casing	
Lead Slurry	
Cement Recipe	Class G Standard Cement +0.25 lb/sx D029 Cellophane Flakes + 3% D079 Extender + 0.20% D046 Antifoam + 10 lb/sx Pheno Seal
Cement Required	377 sx
Cement Yield	2.72 cuft/sx
Slurry Volume	1026.5 cuft 182.8 bbls
Cement Density	11.7 ppg
Water Required	15.74 gal/sx

7" Intermediate Casing	
Tail Slurry	
Cement Slurry	50 / 50 POZ:Standard Cement +0.25 lb/sx D029 Cellophane Flakes + 2% D020 Bentonite + 1.5 lb/sx D024 Gilsontite Extender + 2% S001 Calcium Chloride + 0.10% D046 Antifoam + 6 lb/sx Pheno Seal
Cement Required	212 sx
Cement Yield	1.31 cuft/sx
Slurry Volume	277.7 cuft 49.5 bbls
Cement Density	13.5 ppg
Water Required	5.317 gal/sx

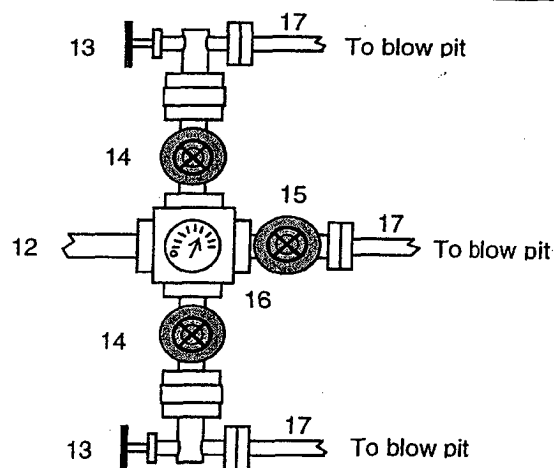
4-1/2" Production Casing	
Cement Recipe	50 / 50 POZ:Class G Standard Cemen +0.25 lb/sx D029 Cellophane Flakes + 3% D020 Bentonite + 1.0 lb/sx D024 Gilsontite Extender + 0.25% D167 Fluid Loss + 0.15% D065 Dispersant + 0.1% D800 Retarder + 0.1% D046 Antifoamer + 3.5 lb/sx PhenoSeal
Cement Quantity	252 sx
Cement Yield	1.44 cuft/sx
Cement Volume	363.5 cuft 64.7 bbls
Cement Density	13 ppg
Water Required	6.43 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



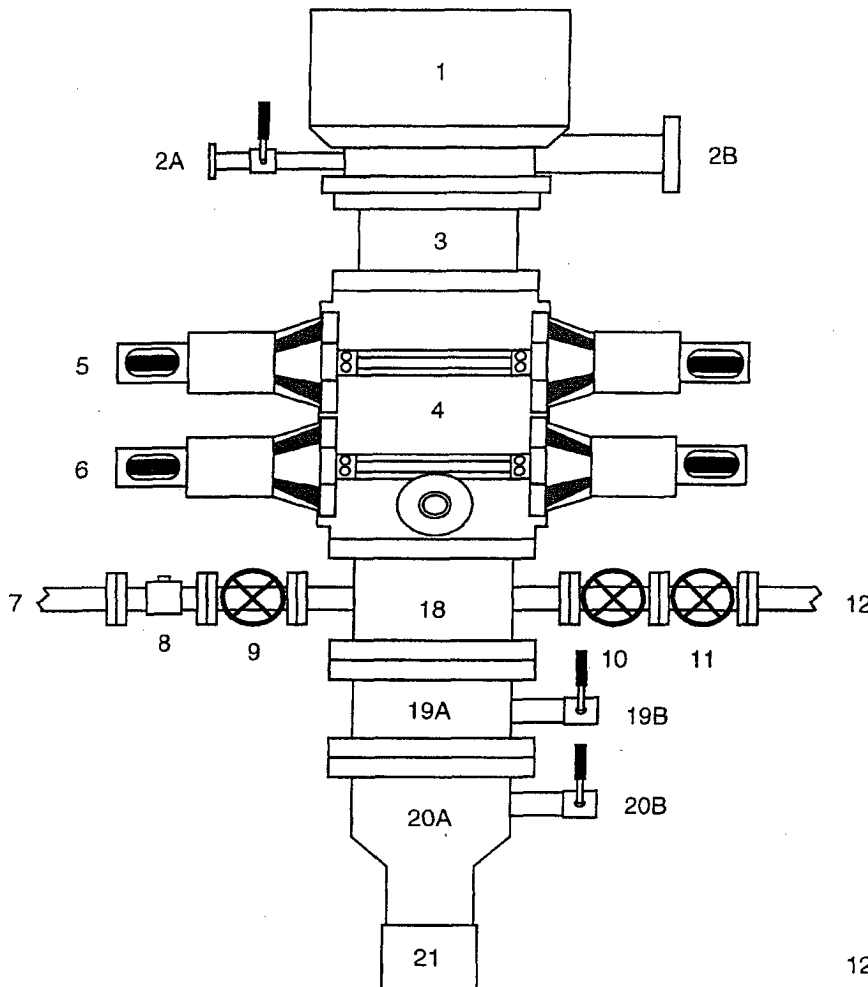
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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:

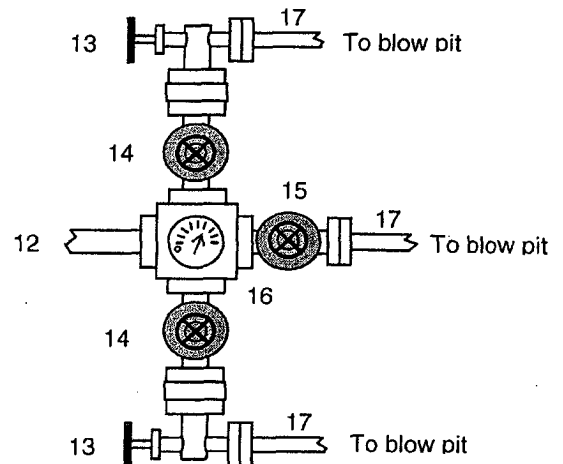
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



1. Rotating Head
- 2A. Fill-up Line & valve
- 2B. Bloopie 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

Revision Date: September 1, 2004

Property : SAN JUAN 29-6 UNIT Well #: 6C

Surface Location:

Unit: M Section: 21 Township: 29N Range: 6W

County: RIO ARRIBA State: New Mexico

Footage: 380 from the SOUTH line, 10 from the WEST line.

CATHODIC PROTECTION

ConocoPhillips (COP) proposes to drill a cathodic protection deep well groundbed for the subject well. COP will drill a hole vertically at the surface large enough to accommodate 20 feet of 8 inch diameter PVC pipe for surface casing to assist in further drilling and loading. Casing may be cemented in place for stability if needed. COP will drill a 6-7/8" hole to an anticipated minimum depth of 300'(maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on the existing well pad and a Farmington based company will be doing the drilling for ConocoPhillips.