

Form 3160  
(February 2003)



2006 APR 19 PM 12 28

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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-012641
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 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.
3a. Address 4001 Penbrook, Odessa, TX 79762		8. Lease Name and Well No. BLANCO #13
3b. Phone No. (include area code) 432-368-1230		9. API Well No. 30-045-33712
4. Location of Well (Report location clearly and in accordance with any State requirements, *) At surface NWSE 2170 FSL - 1955 FEL At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO MESAVERDE / BASIN DAKOTA
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SECTION 26, T31N, R8W NMPM J
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 ACRES	12. County or Parish SAN JUAN
17. Spacing Unit dedicated to this well MV & DK - 320.0 ACRES - E/2	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 7894'	13. State NM
19. Proposed Depth	20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6328' GL	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must 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 must be filed with the appropriate Forest Service office). | 6. Such other site specific information and/or plans as may be required by the BLM~             |

25. Signature 	Name (Printed/Typed) Peggy James	Date 4/18/2006
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Title  
Senior Associate

Approved by (Signature) 	Name (Printed/Typed)	Date 6/26/06
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Title AFM	Office FFO
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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)

ConocoPhillips Company proposes to drill a directional wellbore to the Blanco Mesaverde / Basin Dakota formations. This well will be drilled and equipped in accordance with the attachments submitted herewith. This application is for APD / ROW.

This well will be downhole commingled pursuant to the terms and conditions outlined in Order R-11363.

The notice of staking for this well was filed as the Blanco 11C - single Mesaverde completion. The well has since become a Mesaverde/Dakota completion and the well number has changed to the #13 well.

NMOCD

5

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

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

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

RECEIVED

670 FARMINGTON NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-3712	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 31323	*Property Name BLANCO	*Well Number 13
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6328'


<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
J	26	31N	8W		2170	SOUTH	1955	EAST	SAN JUAN

<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 - E/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

<sup>16</sup> 5186.28'	5212.68'	26	2170'	5235.12'	1955'	2587.86'	2587.86'	LEASE NM-012641 1280 acres  LAT: 36.86761°N LONG: 107.64258°W DATUM: NAD83	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  <i>Virgil E. Chavez</i> Signature Virgil E. Chavez Printed Name Projects & Operations Lead Title <i>March 6, 2006</i> Date
	<sup>18</sup> 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  Survey Date: JANUARY 4, 2006 Signature and Seal of Professional Surveyor   <i>JASON C. EDWARDS</i> Certificate Number 15269								

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- 1 03  
May 27, 2004

WELL API NO.

30-045-33712

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

BLANCO

8. Well Number 13

9. OGRID Number 217817

10. Pool name or Wildcat

BLANCO MESAVERDE / BASIN DAKOTA

**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  
ConocoPhillips Company

3. Address of Operator  
4001 Penbrook, Odessa, TX 79762

4. Well Location

Unit Letter J 2170 feet from the SOUTH line and 1955 feet from the EAST line  
Section 26 Township 31N Range 8W NMPM SAN JUAN County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
6328' GL

Pit or Below-grade Tank Application ☒ Closure ☐

Pit type DRILL Depth to Groundwater 70' Distance from nearest fresh water well 2129' Distance from nearest surface water 727'

Liner Thickness: 12 mil Below-Grade Tank: Volume: 4400 bbls; Construction Material: Synthetic

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.

The pit will be constructed and closed in accordance with Rule 50 and as per COPC June 2005 General Pit Plan on file with the NMOCD. 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

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  Peggy James TITLE Senior Associate DATE 4/18/2006

Type or print name

E-mail address peggy.s.james@conocophillips.com:

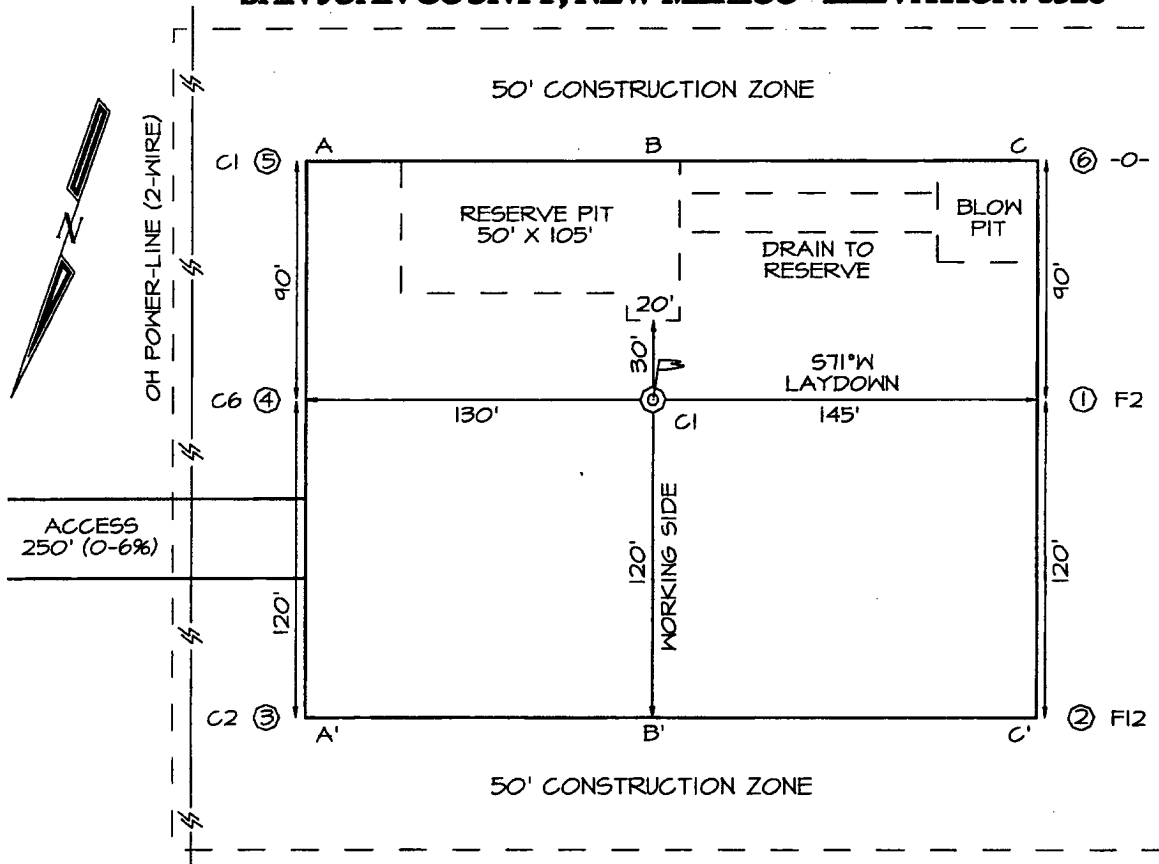
Telephone No.: (432)368-1230

**For State Use Only**

APPROVED BY:  TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 0 DATE JUN 28 2006

Conditions of Approval (if any):

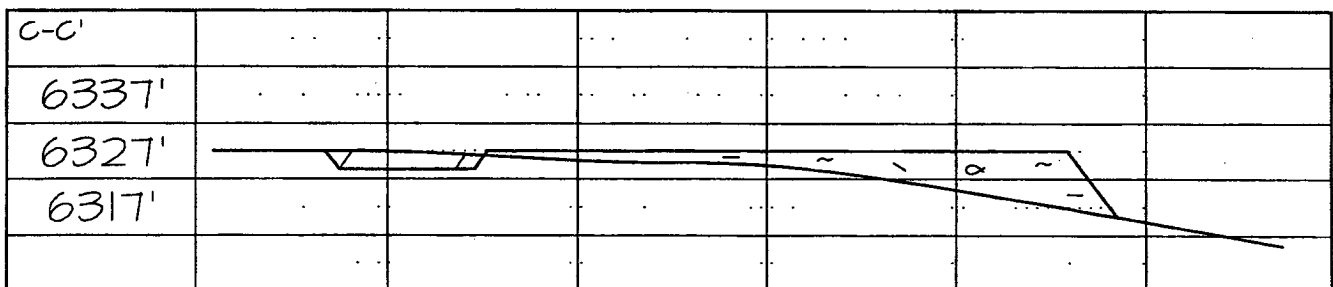
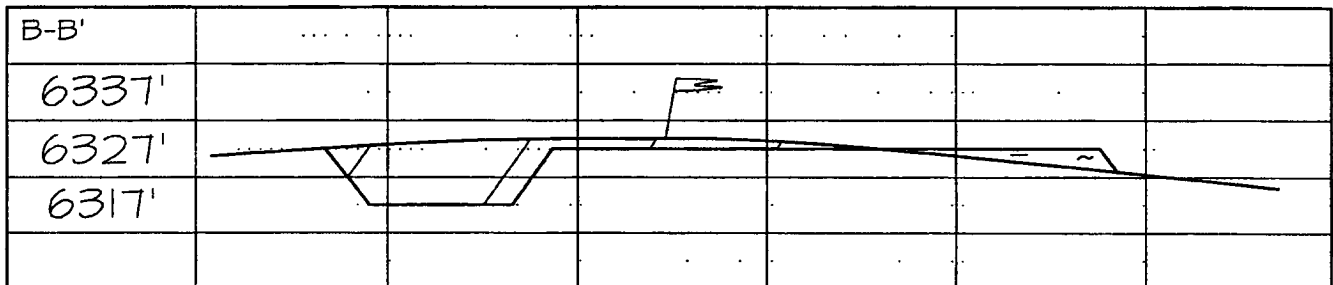
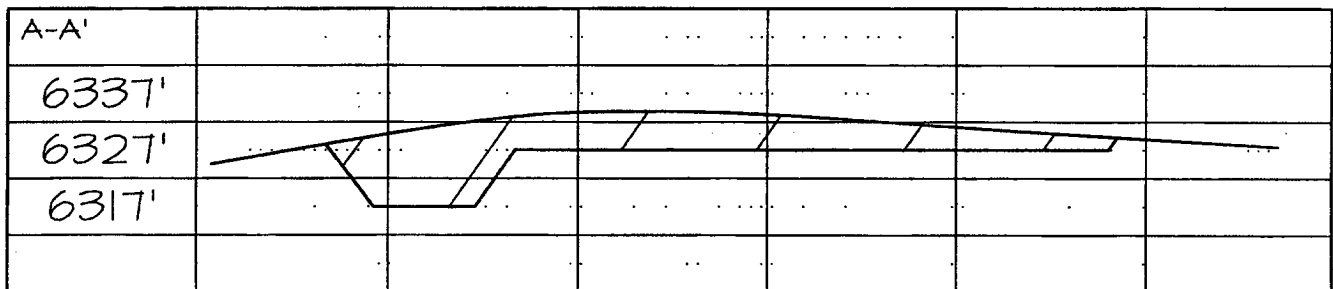
**CONOCOPHILLIPS COMPANY BLANCO #13**  
**2170' FSL & 1955' FEL, SECTION 26, T31N, R8W, NMPM**  
**SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6328'**



**LATITUDE: 36.86761° N**  
**LONGITUDE: 107.64258° W**  
 DATUM: NAD1983

PLAT NOTE:

\*SURFACE OWNER\*  
 Bureau of Land  
 Management



# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

BLANCO 13

Lease:		AFE #: WAN.CNV.6135		AFE \$:	
Field Name: NEW MEXICO-NORTH	Rig: H&P 281	State: NM	County: SAN JUAN	API #:	
Geoscientist: Brain, Ted H.	Phone: 832-486-2592	Prod. Engineer: Piotrowicz, Greg M.	Phone: +1 832-486-3486		
Res. Engineer: Skinner, Steve E	Phone: 832 486-2651	Proj. Field Lead: Kolb, Kelly B.	Phone: 505-320-4785		

## Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

Location: Surface		Datum Code: N/A/B/27		Straight Hole	
Latitude: 36.867610	Longitude: -107.642580	X:	Y:	Section: 26	Range: 8W
Footage X: 1955 FEL	Footage Y: 2170 FSL	Elevation: 6328	(FT)	Township: 31N	

Tolerance:			
Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6344 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	6128	<input type="checkbox"/>			13-1/2" hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	1124	5220	<input type="checkbox"/>			
CJAM	2424	3920	<input type="checkbox"/>			Possible water flows.
KRLD	2624	3720	<input type="checkbox"/>			
FRLD	3019	3325	<input type="checkbox"/>			Possible gas.
PCCF	3269	3075	<input type="checkbox"/>			
LEWS	3469	2875	<input type="checkbox"/>			
Intermediate Casing	3569	2775	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4364	1980	<input type="checkbox"/>			
CLFH	5154	1190	<input type="checkbox"/>			Gas; possibly wet
MENF	5204	1140	<input type="checkbox"/>			Gas; possibly wet
PTLK	5534	810	<input type="checkbox"/>			Gas.
MNCS	5784	560	<input type="checkbox"/>			
CLLP	6794	-450	<input type="checkbox"/>			Gas. Possibly wet.
CRHN	7544	-1200	<input type="checkbox"/>			Gas possible, highly fractured
CBBO	7749	-1405	<input type="checkbox"/>			Gas
Total Depth	7894	-1550	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 11.6 ppf, N-80, LTC 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: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☒ TDT

**PROJECT PROPOSAL - New Drill / Sidetrack****BLANCO 13**

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: General/Work Description - Funds in the amount of \$1,182,552 gross (\$1,182,552 COPC net) are requested to drill and equip the referenced well as an 7,894' MV 80-acre/DK 320-acre well, to be located 2170' FSL & 1955' FEL of Section 26-T31N-R8W in San Juan Co., NM. COPC has 100/82.0% in both the MV & DK.

Section 26-T31N-R8W is in an area with well-developed pay in the Mesaverde Group and potential for development in the Dakota based of offset production. It is estimated that this well will produce 1.34 Bcf EUR, 1.04 Bcf from the Mesaverde and 0.3 from the Dakota. The commingled flowstream has an IP of 531 mcf/d and production for 40 years. The 13% economic indicators generated are: PI 1.13, NPV \$139M, AARR of 17.4%.

HOLE: 13.5 "  
CSG OD: 9.825 "  
CSG ID: 9.001 "  
WGT: 32.3 ppf  
GRADE: H-40  
EXCESS: 125 %  
DEPTH: 235'

SURFACE:  
Option 1  
222 sx  
46.2 bbls  
259.5 cuft  
1.17 ft<sup>3</sup>/sx  
15.8 ppg  
4.973 gal/sx  
Class G Cement  
+ 3% S001 Calcium Chloride  
+ 0.25 lb/sx D029 Cellophane Flakes  
Comp. Strength  
6 hrs 250 psi  
8 hrs 500 psi  
psi

Option 2  
214 sx  
46.2 bbls  
259.5 cuft  
1.21 ft<sup>3</sup>/sx  
15.6 ppg  
5.29 gal/sx  
Standard Cement  
+ 3% Calcium Chloride  
+ 0.25 lb/sx Flocele  
Comp. Strength  
6 hrs 250 psi  
8 hrs 500 psi  
psi

HOLE: 8.75 "  
CSG OD: 7 "  
CSG ID: 6.456 "  
WGT: 20 ppf  
GRADE: J-55  
EXCESS: 150 %  
TAIL: 713.8'  
DEPTH: 3569'

INTERMEDIATE LEAD:

Option 1  
377 sx  
182.8 bbls  
1026.2 cuft  
2.72 ft<sup>3</sup>/sx  
11.7 ppg  
15.74 gal/sx  
Class G Cement  
+ 3% D079 Extender  
+ 0.20% D046 Antifoam  
+ 10 lb/sx Phenoseal  
Comp. Strength  
9 hrs 300 psi  
48 hrs 525 psi  
psi

Option 2  
395 sx  
182.8 bbls  
1026.2 cuft  
2.60 ft<sup>3</sup>/sx  
11.5 ppg  
14.62 gal/sx  
Type III Ashgrove Cement  
+ 30 lb/sx San Juan Poz  
+ 3% Bentonite  
+ 5.0 lb/sx Phenoseal  
Comp. Strength  
1:47 hrs 50 psi  
12 hrs 350 psi  
24 hrs 450 psi  
psi

Option 3  
390 sx  
182.8 bbls  
1026.2 cuft  
2.63 ft<sup>3</sup>/sx  
11.7 ppg  
15.92 gal/sx  
Class G Cement  
+ 3% D079 Extender  
+ 0.20% D046 Antifoam  
+ 1.0 lb/bbl CemNet  
Comp. Strength  
3 hrs 100 psi  
24 hrs 443 psi  
psi

HOLE: 6.25 "  
CSG OD: 4.5 "  
CSG ID: 4 "  
WGT: 11.6 ppf  
GRADE: N-80  
EXCESS: 50 %  
DEPTH: 7894'

PRODUCTION:

Option 1  
479 sx  
122.8 bbls  
689.3 cuft  
1.44 ft<sup>3</sup>/sx  
13.0 ppg  
6.47 gal/sx  
50/50 Poz: Class G Cement  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 3% D020 Bentonite  
+ 1.0 lb/sx D024 Gilsontite Extender  
+ 0.25% D167 Fluid Loss  
+ 0.25% D065 Dispersant  
+ 0.1% D800 Retarder  
+ 0.1% D046 Antifoamer  
+ 3.5 lb/sx Phenoseal  
Comp. Strength  
7 hrs 500 psi  
24 hrs 2100 psi  
psi

Option 2  
475 sx  
122.8 bbls  
689.3 cuft  
1.45 ft<sup>3</sup>/sx  
13.1 ppg  
6.55 gal/sx  
50/50 Poz: Standard Cement  
+ 3% Bentonite  
+ 0.2% CFR-3 Friction Reducer  
+ 0.1% HR-5 Retarder  
+ 0.8% Halad-9 Fluid Loss Additive  
+ 3.5 lb/sx Phenoseal  
Comp. Strength  
9:32 50 psi  
12 hrs 500 psi  
13:29 1026 psi  
24 hrs 2300 psi  
psi

INTERMEDIATE TAIL:

Option 1  
212 sx  
49.5 bbls  
277.9 cuft  
1.31 ft<sup>3</sup>/sx  
13.5 ppg  
5.317 gal/sx  
50/50 Poz: Class G Cement  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 3% S001 Calcium Chloride  
+ 2% D020 Bentonite  
+ 1.5 lb/sx D024 Gilsontite Extender  
+ 0.1% D046 Antifoamer  
+ 6 lb/sx Phenoseal  
Comp. Strength  
3:53 500 psi  
8:22 1000 psi  
24 hrs 3170 psi  
48 hrs 5399 psi  
psi

Option 2  
209 sx  
49.5 bbls  
277.9 cuft  
1.33 ft<sup>3</sup>/sx  
13.5 ppg  
5.52 gal/sx  
50/50 Poz: Standard Cement  
+ 2% Bentonite  
+ 6.0 lb/sx Phenoseal  
Comp. Strength  
2:05 50 psi  
4:06 500 psi  
12 hrs 1250 psi  
24hrs 1819 psi  
psi

Option 3  
217 sx  
49.5 bbls  
277.9 cuft  
1.28 ft<sup>3</sup>/sx  
13.5 ppg  
5.255 gal/sx  
50/50 Poz: Class G Cement  
+ 2% D020 Bentonite  
+ 5.0 lb/sx D024 Gilsontite Extender  
+ 2% S001 Calcium Chloride  
+ 0.1% D046 Antifoamer  
+ 0.15% D065 Dispersant  
+ 1.0 lb/bbl CemNet  
Comp. Strength  
24 hrs 1850 psi  
48 hrs 3411 psi  
psi

Blanco #13

HOLE: 13.5 "  
CSG OD: 9.625 "  
CSG ID: 9.001 "  
WGT: 32.3 ppf  
GRADE: H-40  
EXCESS: 125 %  
DEPTH: 235'

SURFACE:

INTERMEDIATE LEAD:

Option 4

356 sx  
182.8 bbls  
1026.2 cuft  
2.88 ft<sup>3</sup>/sx  
11.5 ppg  
16.85 gal/sx  
Standard Cement  
+ 3% Econolite (Extender)  
+ 10 lb/sx Phenoseal

Comp. Strength  
1:47 50 psi  
12 hrs 350 psi  
24 hrs 450 psi

HOLE: 8.75 "  
CSG OD: 7 "  
CSG ID: 6.456 "  
WGT: 20 ppf  
GRADE: J-55  
EXCESS: 150 %

TAIL: 713.8'

DEPTH: 3569'

Option 5

489 sx  
182.8 bbls  
1026.2 cuft  
2.10 ft<sup>3</sup>/sx  
11.7 ppg  
11.724 gal/sx  
75% Type XI / 25% Class G Cement  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 3% D079 Extender  
+ 0.20% D046 Antifoam

Comp. Strength  
10:56 500 psi  
42 hrs 1012 psi

INTERMEDIATE TAIL:

PRODUCTION:

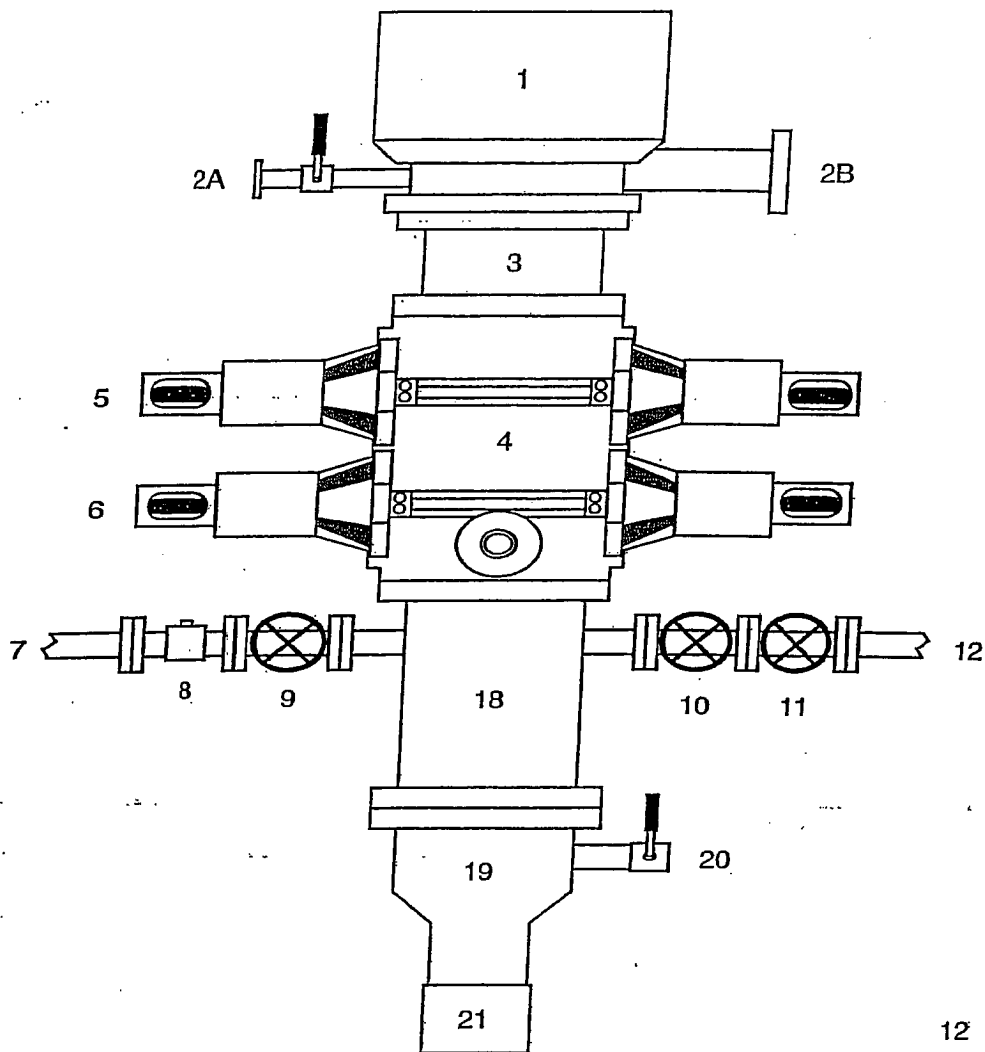
HOLE: 6.25 "  
CSG OD: 4.5 "  
CSG ID: 4 "  
WGT: 11.6 ppf  
GRADE: N-80  
EXCESS: 50 %

DEPTH: 7894'

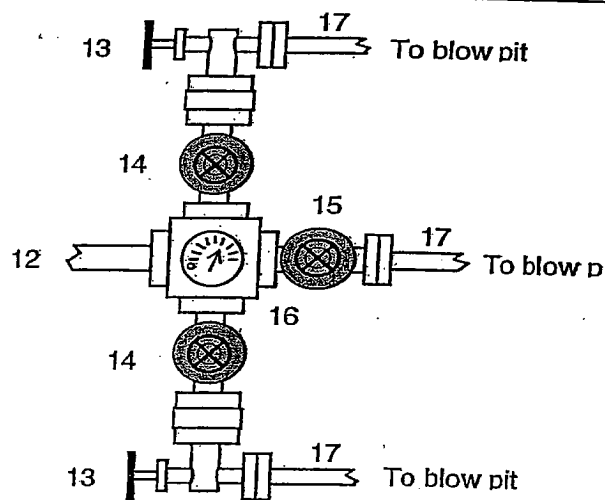


# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

## 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

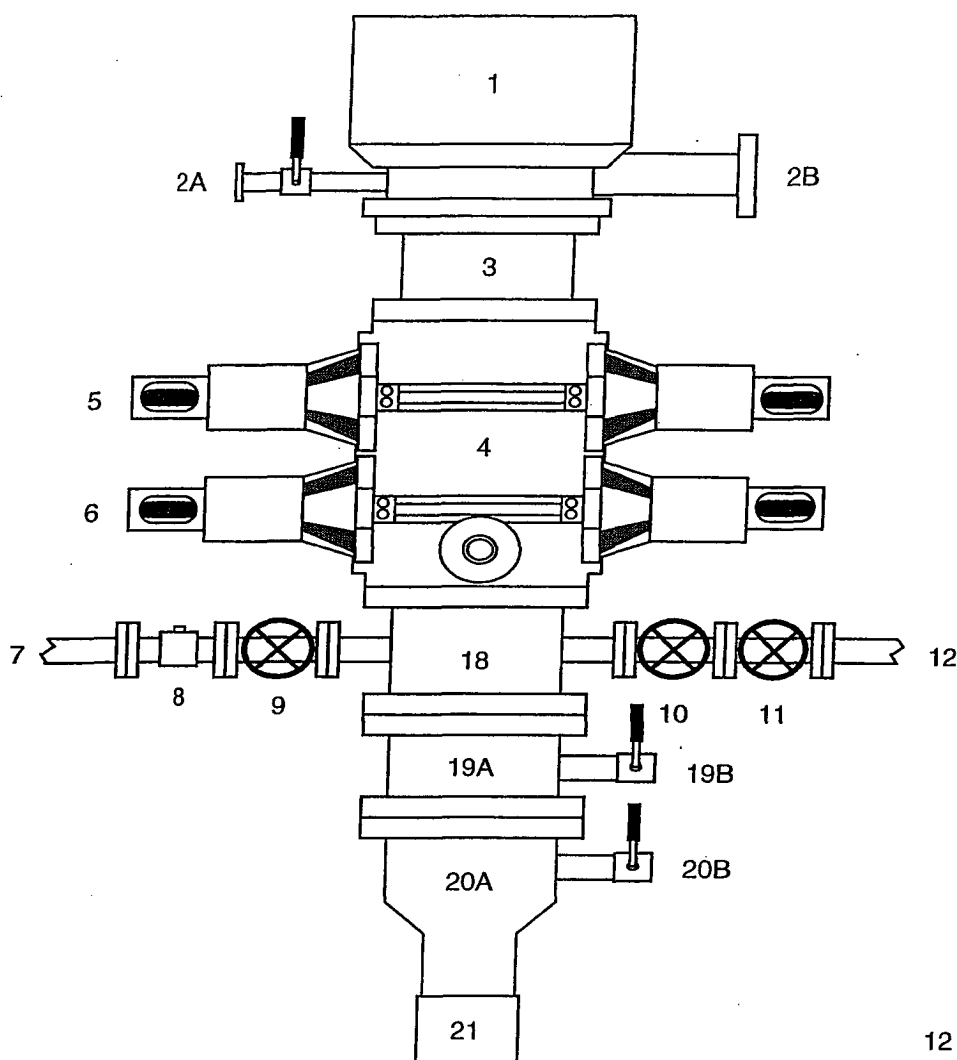


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head 'A' Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head 'A' Section. A test plug will be set in the wellhead and the pipe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

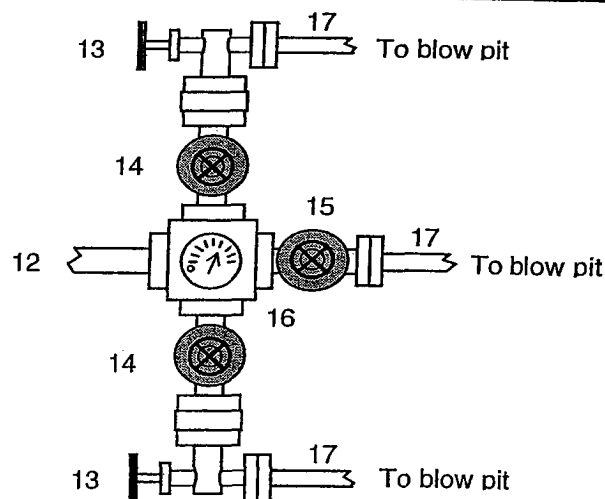
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

## 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

Property :                     BLANCO                     Well #:                     13                    

**Surface Location:**

Unit:           J           Section:           26           Township:           31N           Range:           8W          

County:           SAN JUAN                     State: **New Mexico**

Footage:           2170           from the           SOUTH           line,           1955           from the           EAST           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.