

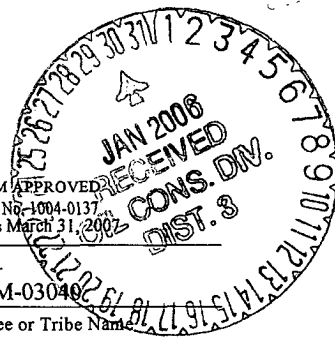
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

2006 JAN 17 PM 3 15

RECEIVED

070 FARMINGTON

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2002



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-030402
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 217817		7. If Unit or CA Agreement, Name and No. NMNM-678416A
3a. Address 4001 Penbrook, Odessa, TX 79762		8. Lease Name and Well No. SAN JUAN 29-6 UNIT #6B 31326
3b. Phone No. (include area code) 432-368-1230		9. API Well No. 30-039-29753
4. Location of Well (Report location clearly and in accordance with any State requirements, *) At surface NWNW 500 FNL - 400 FWL At proposed prod. zone		10. Field and Pool, or Exploratory 72319 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 SECTION 21, T29N, R6W NMPM D
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 ACRES	12. County or Parish RIO ARRIBA
17. Spacing Unit dedicated to this well 320.0 ACRES - W/2	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5782'	20. BLM/BIA Bond No. on file ES0085
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6391' 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.
2. A Drilling Plan.
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).
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 BLM~

25. Signature 	Name (Printed/Typed) Peggy James	Date 1/16/2006
Title Sr. Associate		

Approved by (Signature) 	Name (Printed/Typed)	Date 1/25/06
Title [Name]	Office	

Application approval does not warrant or certify that the applicant holds legal orequitable 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)

onocoPhillips Company proposes to drill a vertical wellbore to the Blanco Mesaverde formation. This well will be drilled and equipped in accordance with the attachments submitted herewith. This application is for APD / ROW.

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

NMOCD

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

Form C-102  
Revised February 21, 1994

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

2006 JAN 17 PM 3 15

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30-039-29753</b>		*Pool Code <b>72319</b>	*Pool Name <b>BLANCO-MESAVERDE (Purated Gas)</b>
*Property Code <b>31326</b>	*Property Name <b>SAN JUAN 29-6 UNIT</b>		*Well Number <b>6B</b>
*GRID No. <b>217817</b>	*Operator Name <b>CONOCOPHILLIPS COMPANY</b>		*Elevation <b>6391'</b>

10 Surface Location

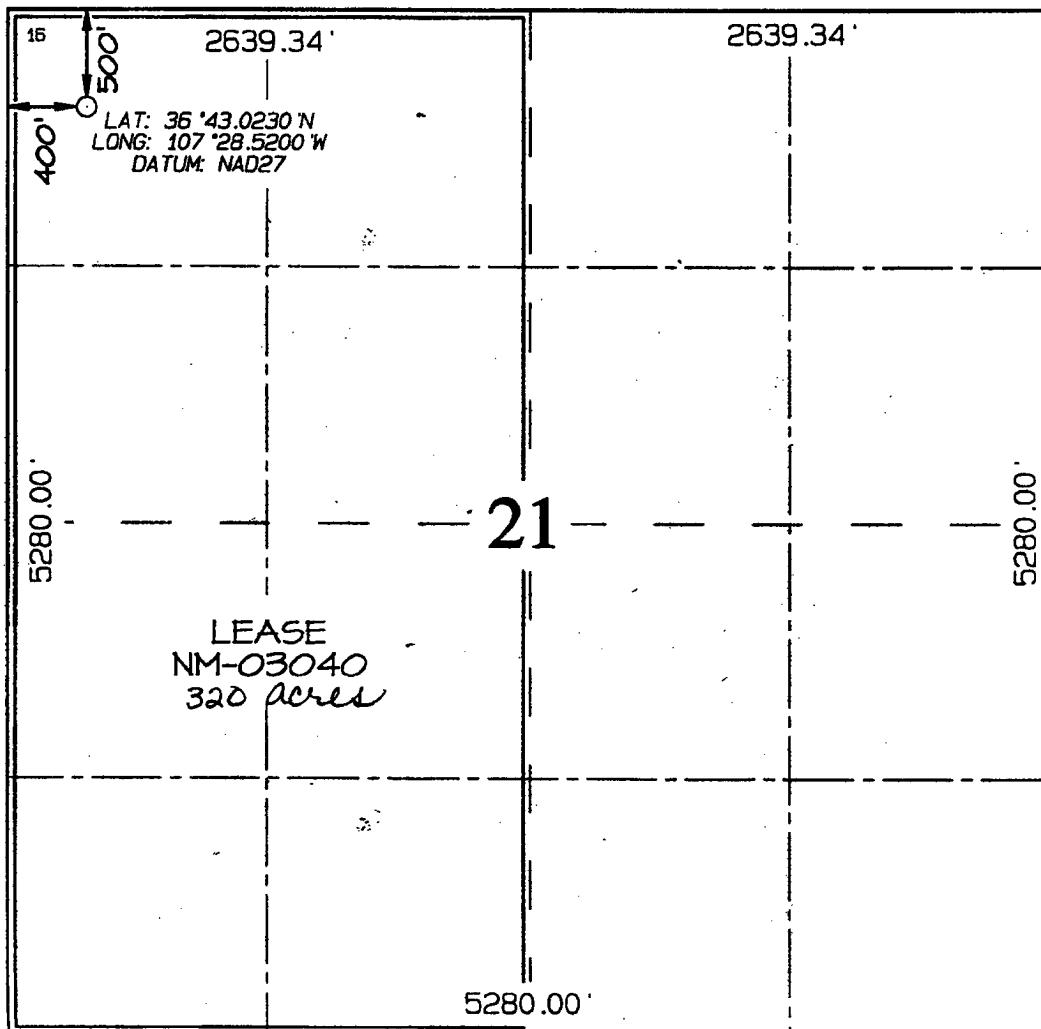

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>21</b>	<b>29N</b>	<b>6W</b>		<b>500</b>	<b>NORTH</b>	<b>400</b>	<b>WEST</b>	<b>RIO ARriba</b>

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 <b>320.0 Acres - W/2</b>	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

	<p>17 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>Virgil E. Chavez</i></p> <p>Signature Virgil E. Chavez</p> <p>Printed Name Projects &amp; Operations Lead</p> <p>Title <i>December 29, 2005</i></p> <p>Date</p>
	<p>18 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>Date of Survey: MAY 16, 2005</p> <p>Signature and Seal of Professional Surveyor</p> <p></p> <p><i>JASON C. EDWARDS</i></p> <p>Certificate Number 15269</p>

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

WELL API NO. <b>30-039-29753</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SAN JUAN 29-6 UNIT
8. Well Number 6B
9. OGRID Number 217817
10. Pool name or Wildcat BLANCO MESAVERDE

<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.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator ConocoPhillips Company	
3. Address of Operator 4001 Penbrook, Odessa, TX 79762	
4. Well Location Unit Letter <u>D</u> <u>500</u> feet from the <u>NORTH</u> line and <u>400</u> feet from the <u>WEST</u> line Section <u>21</u> Township <u>29N</u> Range <u>6W</u> NMPM <u>RIO ARRIBA</u> County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>6391</u> GL	

Pit or Below-grade Tank Application <input checked="" type="checkbox"/> Closure <input type="checkbox"/>	
Pit type <u>DRILL</u> Depth to Groundwater <u>100'</u> Distance from nearest fresh water well <u>5854'</u> Distance from nearest surface water <u>2200'</u>	
Liner Thickness: <u>12</u> mil Below-Grade Tank: Volume <u>4400</u> bbls; Construction Material <u>SYNTHETIC</u>	

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 1103. 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 Sr. Associate DATE 01/16/2006

Type or print name E-mail address peggy.s.james@conocophillips.com Telephone No.: (432)368-1230

**For State Use Only**

APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 63 DATE JAN 30 2006  
Conditions of Approval (if any):

**CONOCOPHILLIPS COMPANY SAN JUAN 29-6 UNIT #6B**  
**500' FNL & 400' FWL, SECTION 21, T29N, R6W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6391'**

PLAT NOTE:

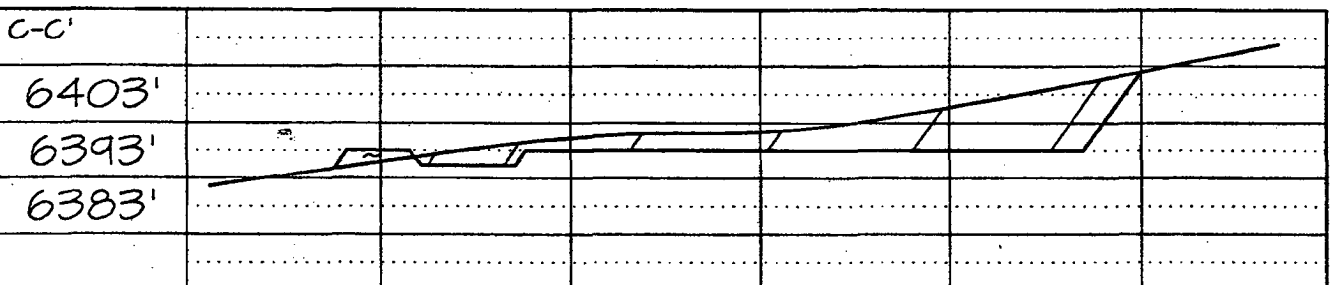
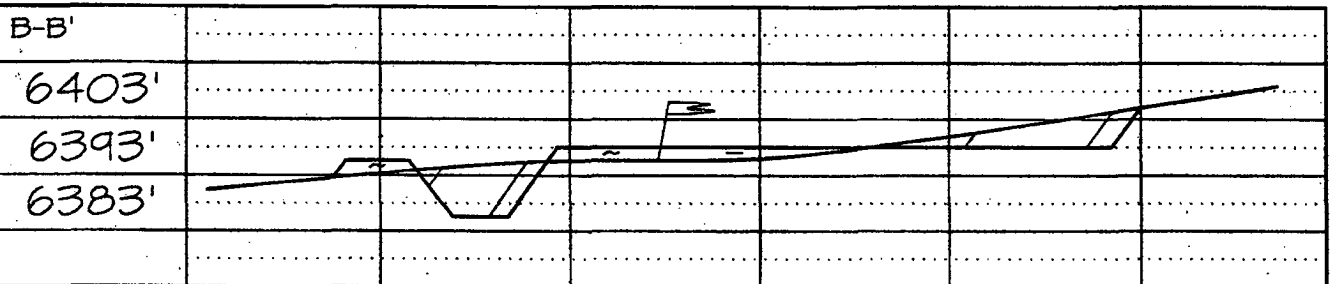
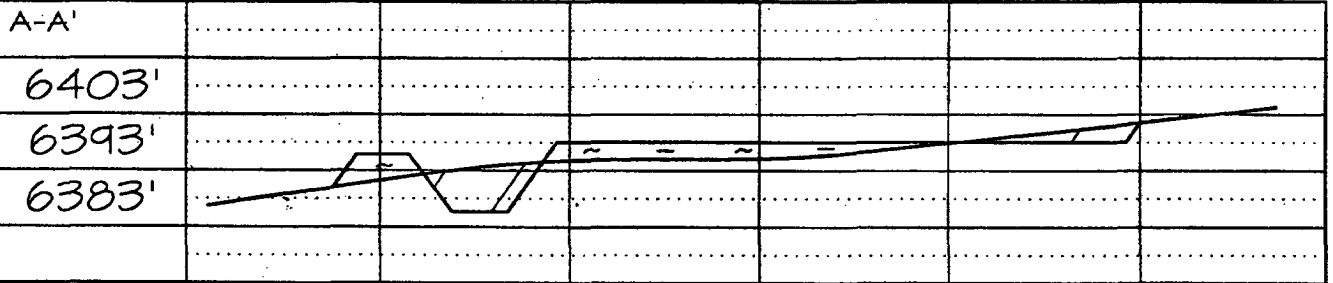
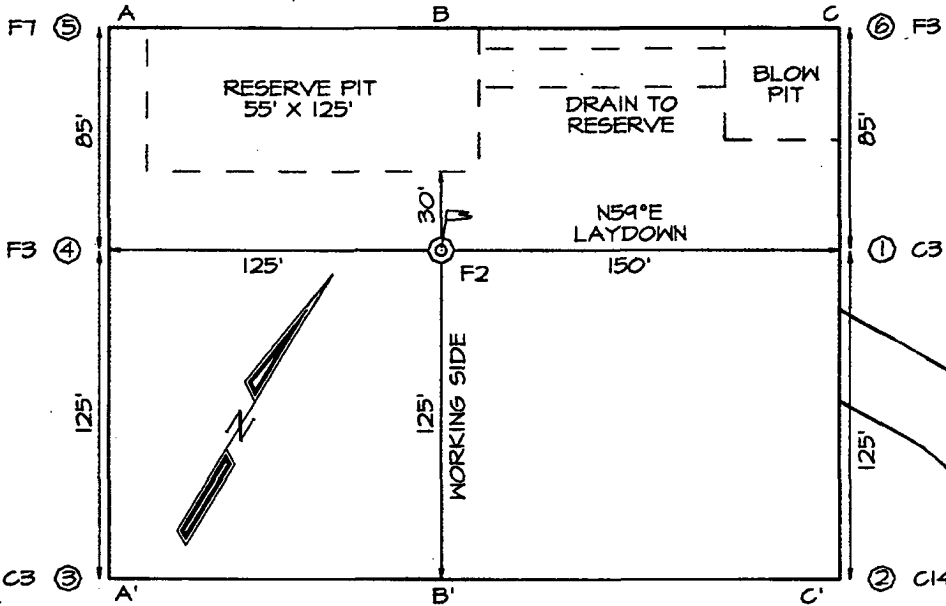
\*SURFACE OWNER\*  
 Bureau of Land  
 Management

LATITUDE: 36.71705° N  
 LONGITUDE: 107.47533° W  
 DATUM: NAD1927

FENCE-LINE (4-WIRE)

50' CONSTRUCTION ZONE

WASH



# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 6B

Lease:		AFE #: WAN.CNV.6194		AFE \$:	
Field Name: 29-6		Rig: H&P 283		State: NM	County: RIO ARRIBA
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: 36.72	Longitude: -107.48	X:	Y:	Section: 21	Range: 6W
Footage X: 400 FWL	Footage Y: 500 FNL	Elevation: 6391	(FT)	Township: 29N	

Tolerance:			
Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:

Formation Data: Assume KB = 6407 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	6191	<input type="checkbox"/>			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	1207	5200	<input type="checkbox"/>			
CJAM	2527	3880	<input type="checkbox"/>			Possible water flows.
KRLD	2557	3850	<input type="checkbox"/>			
FRLD	2982	3425	<input type="checkbox"/>			Possible gas.
PCCF	3282	3125	<input type="checkbox"/>			
LEWS	3482	2925	<input type="checkbox"/>			
Intermediate Casing	3582	2825	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4257	2150	<input type="checkbox"/>			
CLFH	4957	1450	<input type="checkbox"/>			Gas; possibly wet
MENF	5137	1270	<input type="checkbox"/>			Gas.
PTLK	5432	975	<input type="checkbox"/>			Gas.
MNCS	5682	725	<input type="checkbox"/>			
TOTAL DEPTH MV	5782	625	<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: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

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

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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**San Juan 29-6 #6B**  
**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	235'	
Cement Yield	124	cuft/sk
Excess Cement	125	%
Cement Required	141	sx

SHOE 235', 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	3582'	
Lead Cement Yield	288	cuft/sk
Lead Cement Excess	150	%
Tail Cement Length	716.4'	
Tail Cement Yield	133	cuft/sk
Tail Cement Excess	150	%
Lead Cement Required	357	sx
Tail Cement Required	240	sx

SHOE 3582', 7", 20 ppf, J-55 STC

**PRODUCTION CASING :**

Drill Bit Diameter	6.25"	
Casing Outside Diameter	4.5"	Casing Inside Diam. 4.052"
Casing Weight	10.5	ppf
Casing Grade	J-55	
Top of Cement	3382'	200' inside intermediate casing
Shoe Depth	5782'	
Cement Yield	175	cuft/sk
Cement Excess	50	%
Cement Required	250	sx

SHOE 5782', 4.5", 10.5 ppf, J-55 STC

**SAN JUAN 29-6 #6B**
**HALLIBURTON OPTION**

9-5/8 Surface Casing		
Cement Recipe	Class C Standard Cement	
	+ 3% Calcium Chloride	
	+0.25 lb/sx Flocele	
Cement Volume	141	sx
Cement Yield	1.21	cuft/sx
Slurry Volume	172.1	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	357	sx
Cement Yield	2.88	cuft/sx
Slurry Volume	1027.5	cuft
	183.0	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	210	sx
Cement Yield	1.33	cuft/sx
Slurry Volume	278.9	cuft
	49.7	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	250	sx
Cement Yield	1.45	cuft/sx
Cement Volume	362.1	cuft
	64.5	
Cement Density	13.1	ppg
Water Required	6.47	gal/sx

**SCHLUMBERGER OPTION 1**

9-5/8 Surface Casing		
Cement Recipe	Class G Standard Cement	
	+ 2% S001 Calcium Chloride	
	+0.25 lb/sx D029 Cellophane Flakes	
Cement Volume	141	sx
Cement Yield	1.16	cuft/sx
Cement Volume	163.8	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	378	sx
Cement Yield	2.72	cuft/sx
Slurry Volume	1028.8	cuft
	183.2	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 Gilsonite Extender	
	+ 2% S001 Calcium Chloride	
	+ 0.10% D046 Antifoam	
Cement Required	+ 6 lb/sx Pheno Seal	
	213	sx
Cement Yield	1.31	cuft/sx
Slurry Volume	278.8	cuft
	49.7	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 Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D020 Bentonite	
	+ 1.0 lb/sx D024 Gilsonite 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	251	sx
Cement Yield	1.44	cuft/sx
Cement Volume	362.0	cuft
	64.5	
Cement Density	13	ppg
Water Required	6.43	gal/sx

**SCHLUMBERGER OPTION 2**

9-5/8 Surface Casing		
Cement Recipe	Type III Cement	
	+ 2% S001 Calcium Chloride	
	+ 0.25 lb/sx D029 Cellophane Flakes	
Cement Volume	+ 0.20% D046 Antifoam	
	130	sx
Cement Yield	1.33	cuft/sx
Cement Volume	172.9	cuft
Cement Density	14.8	ppg
Water Required	6.095	gal/sx

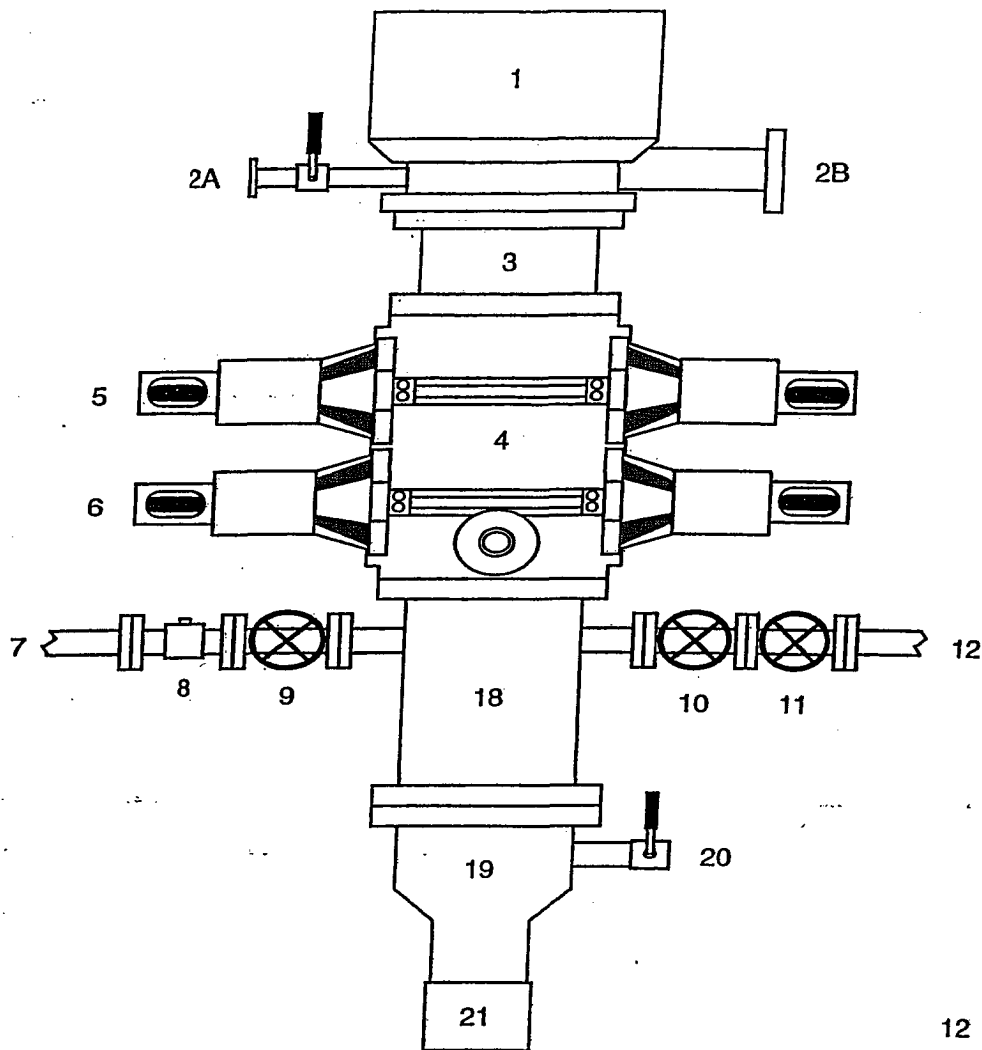
7" Intermediate Casing		
Lead Slurry		
Cement Recipe	75% Type XI / 25% Class G Cement	
	+ 0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D079 Extender	
	+ 0.20% D046 Antifoam	
Cement Required	491	sx
Cement Yield	2.1	cuft/sx
Slurry Volume	1030.1	cuft
	183.5	bbls
Cement Density	11.7	ppg
Water Required	11.724	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	
Cement Required	+ 6 lb/sx Pheno Seal	
	213	sx
Cement Yield	1.31	cuft/sx
Slurry Volume	278.9	cuft
	49.7	bbls
Cement Density	13.5	ppg
Water Required	5.317	gal/sx

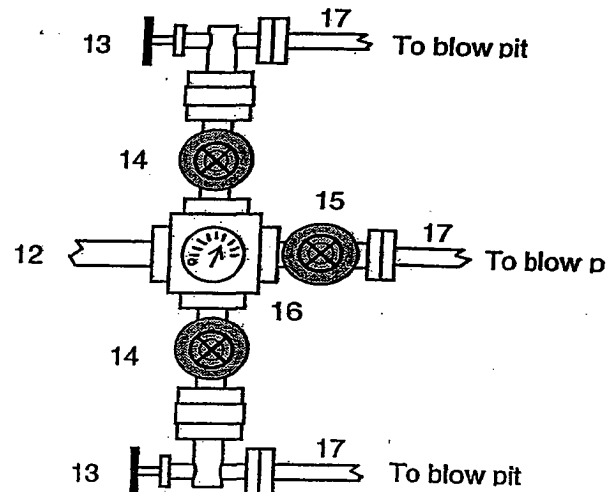
4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ:Class G Cement	
	+ 0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D020 Bentonite	
	+ 1.0 lb/sx D024 Gilsonite Extender	
	+ 0.25% D167 Fluid Loss	
	+ 0.15% D065 Dispersant	
	+ 0.1% D800 Retarder	
	+ 0.1% D046 Antifoamer	
	+ 3.5 lb/sx PhenoSeal	
	251	sx
Cement Yield	1.44	cuft/sx
Cement Volume	362.1	cuft
	64.5	
Cement Density	13	ppg
Water Required	6.47	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



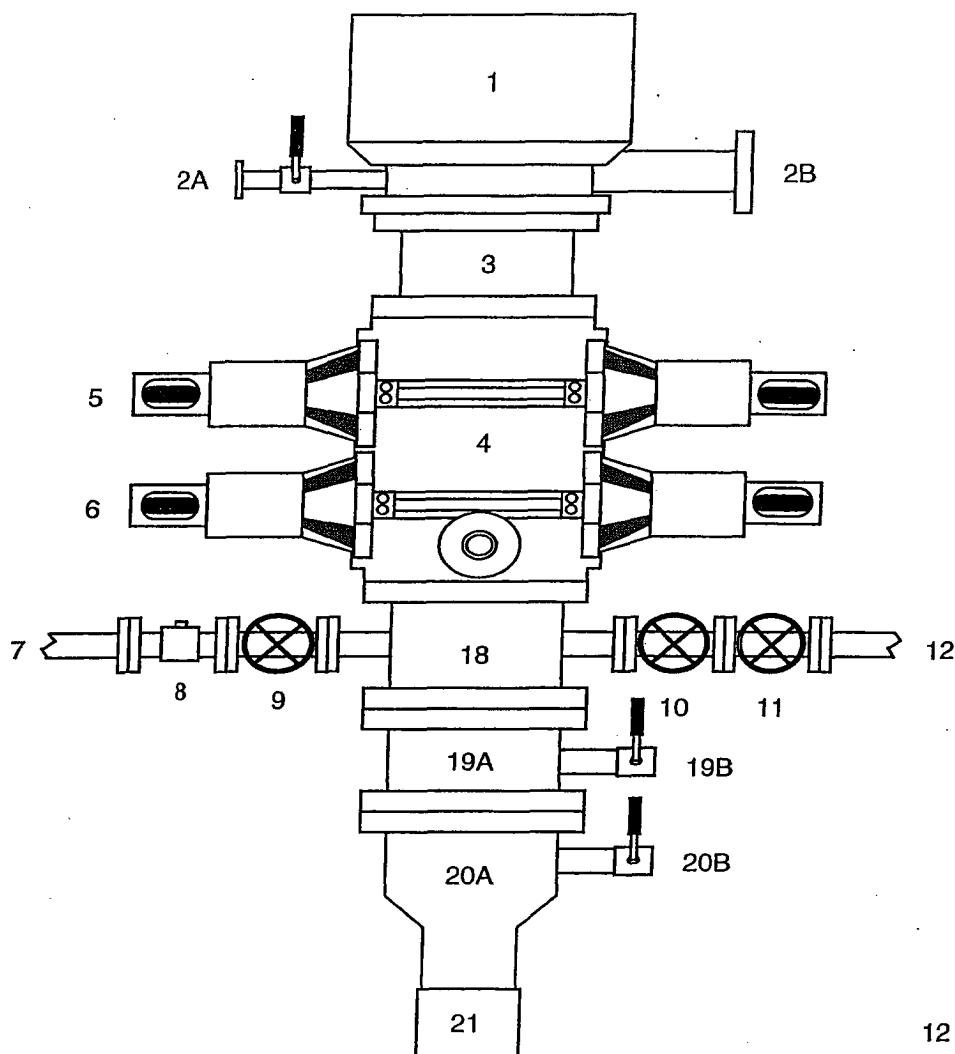
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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

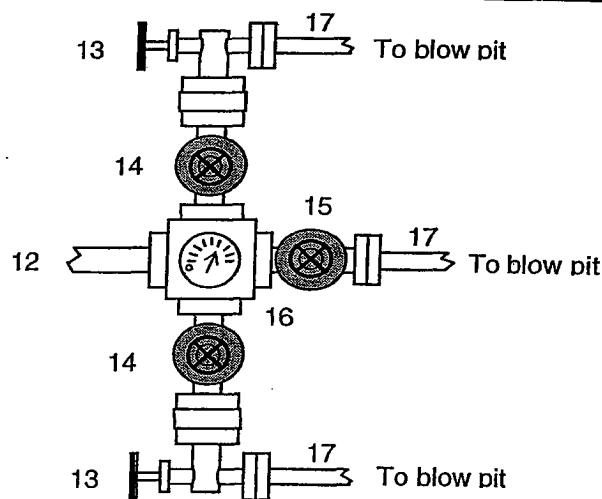


# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



1. Rotating Head
- 2A. Fill-up Line & valve
- 2B. Bleeble 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 : SAN JUAN 29-6 UNIT Well #: 6B

**Surface Location:**

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

County: RIO ARRIBA State: New Mexico

Footage: 500 from the NORTH line, 400 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.