UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2006 AUG 8 PM 11 17

RECEIVED
070 FARMINGTON NM

1a.	Type of Work DRILL	5.	Lease Number NMNM-012299 Unit Reporting Number
1b.	Type of Well GAS	6.	If Indian, All. or Tribe
2.	Operator ConocoPhillips	7.	Unit Agreement Name San Juan 31-6 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. 9.	Farm or Lease Name Well Number #53M
4.	Location of Well Unit L (NWSW), 1980' FSL & 660' FWL, Latitude 36° 50.4'N Longitude 107° 25.2'W	10. 11.	Field, Pool, Wildcat Basin Dakota / Blanco MV Sec., Twn, Rge, Mer. (NMPM) Sec. 1, T30N, R06W API # 30-039-30023
14.	Distance in Miles from Nearest Town	12. 13.	County Rio ~~Arriba~~ Arriba State NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 660'		
16.	Acres in Lease	17.	Acres Assigned to Well DK - S/2 273.49; MV - 319.69 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease		
19.	Proposed Depth 7956'	20.	Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6415' GL	22.	Approx. Date Work will Start SEP 2006
23.	Proposed Casing and Cementing Program See Operations Plan attached		
24.	Authorized by: Patsy Clugston Sr. Regulatory Analyst		8/8/06 Date

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY D. J. Mankiewicz TITLE AFM DATE 9/19/06

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

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

NMOCD

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-30023	72319 / 71599	BLANCO MESAVERDE / BASIN DAKOTA

[4] Property Code	[5] Property Name	[6] Well Number
31328	SAN JUAN 31-6 UNIT	53M

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	CONOCOPHILLIPS COMPANY	6415'

[10] Surface Location

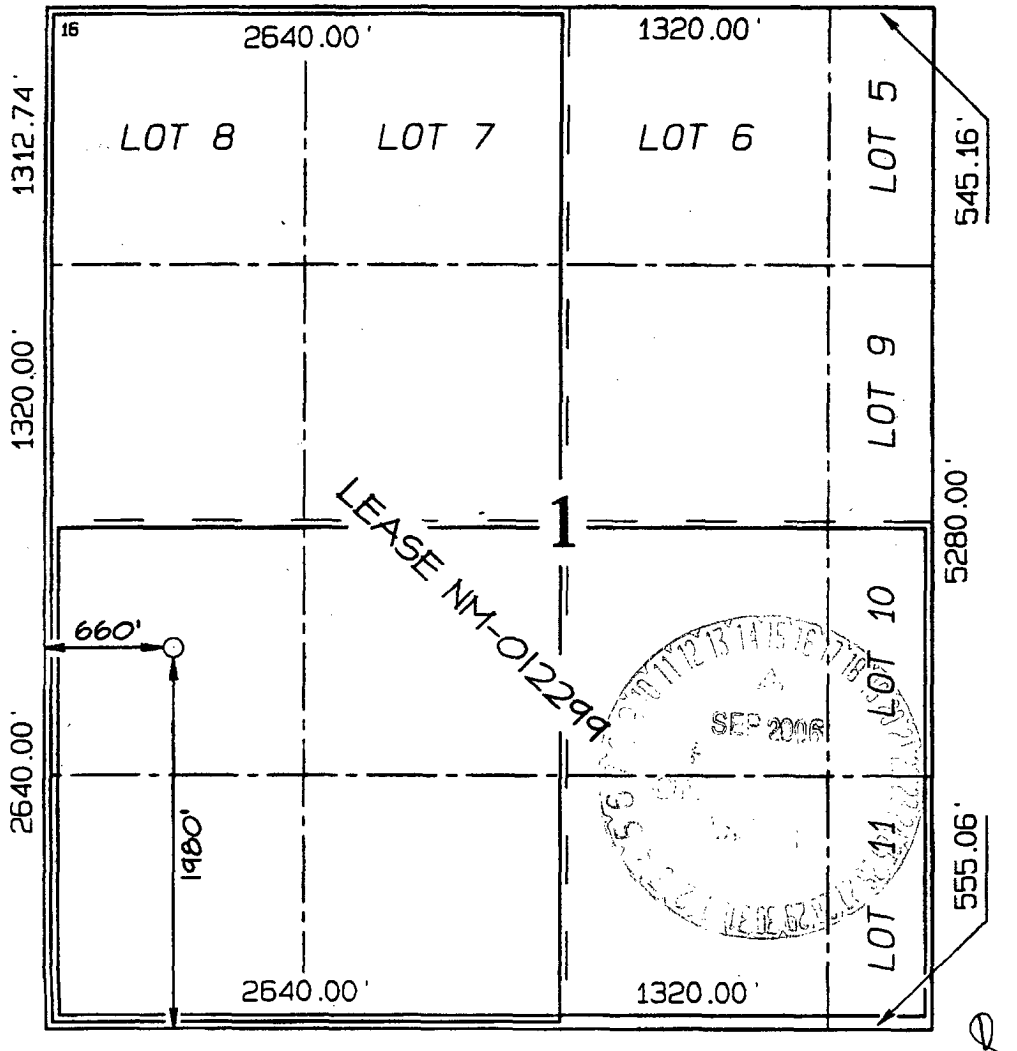
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	1	30N	6W		1980	SOUTH	660	WEST	RIO ARRIBA

[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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
319.69 Acres - W/2 (MV) 273.49 Acres - S/2 (DK)			

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



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Virgil E. Chavez
Signature

Virgil E. Chavez
Printed Name

Projects & Operations Lead
Title

December 21, 2005
Date

[18] 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: SEPTEMBER 14, 2005

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
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-103
May 27, 2004

WELL API NO. 30-039-

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No. Federal Lease - NM-012299

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.)

7. Lease Name or Unit Agreement Name: San Juan 31-6 Unit

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number: #53M

2. Name of Operator: ConocoPhillips Company

9. OGRID Number: 217817

3. Address of Operator: 3401 E. 30TH STREET, FARMINGTON, NM 87402

10. Pool name or Wildcat: Blanco Mesaverde / Basin DK

4. Well Location
Unit Letter L : 1980 feet from the South line and 660 feet from the West line
Section 1 Township 30N Rng 6W NMPM County Rio Arriba

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 6415' GL

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water <200'

Pit Liner Thickness: 12 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:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:		New Drill	☒	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.

We are constructing Drilling and workover pits as per our General plan on file with the OCD dated June 2005 and we are closing all pits as per the November 1, 2004 Guidelines.

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 Patsy Clugston TITLE Sr. Regulatory Specialist DATE 8/8/2006

Type or print name Patsy Clugston E-mail address: pclugston@br-inc.com Telephone No. 505-326-9518

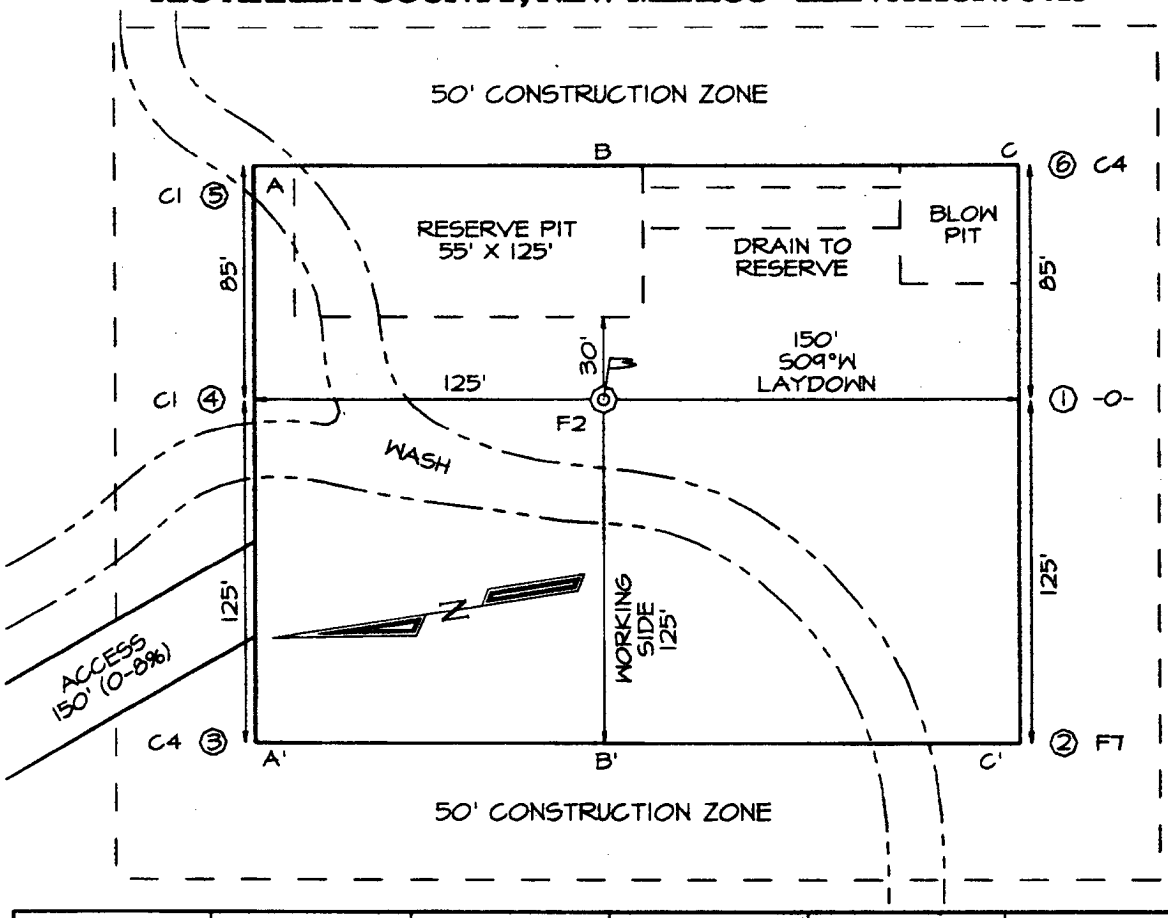
For State Use Only

APPPROVED BY _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE SEP 15 2006

Conditions of Approval (if any):

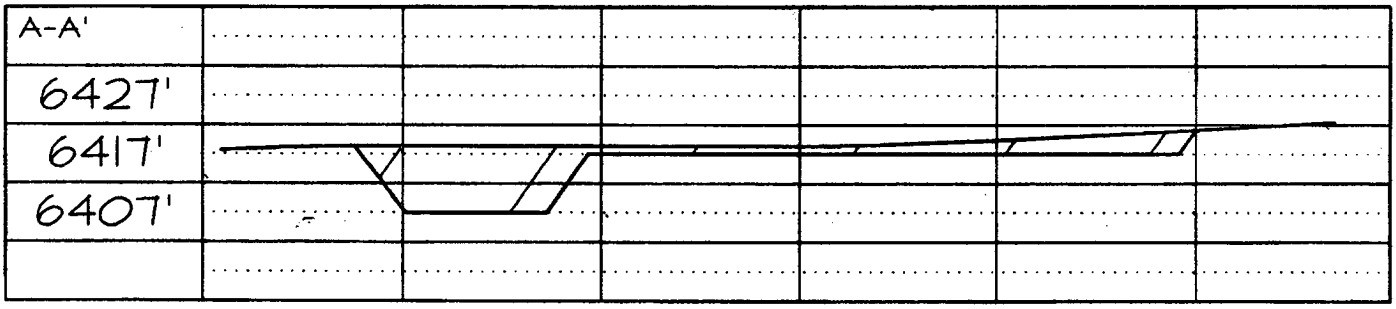
CONOCOPHILLIPS COMPANY SAN JUAN 31-6 UNIT #53M
1980' FSL & 660' FWL, SECTION 1, T30N, R6W, NMPM
RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6415'

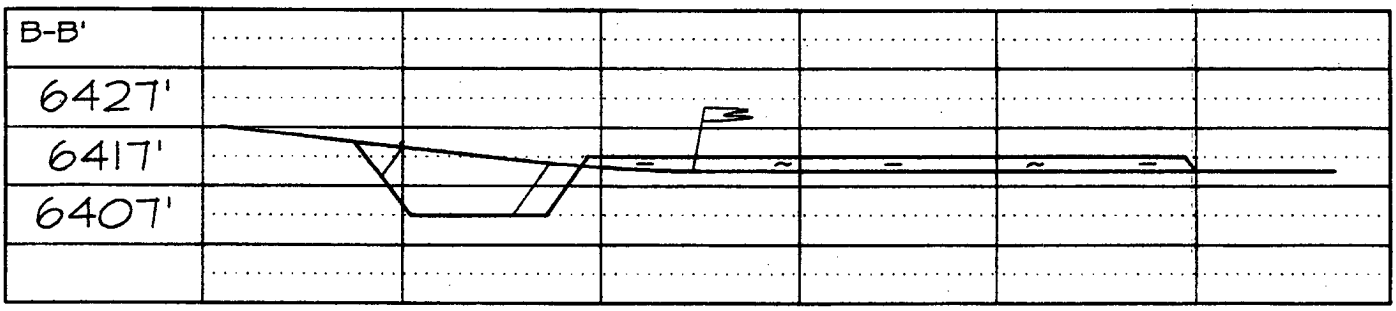
LATITUDE: 36.83980° N
LONGITUDE: 107.42033° W
DATUM: NAD1927

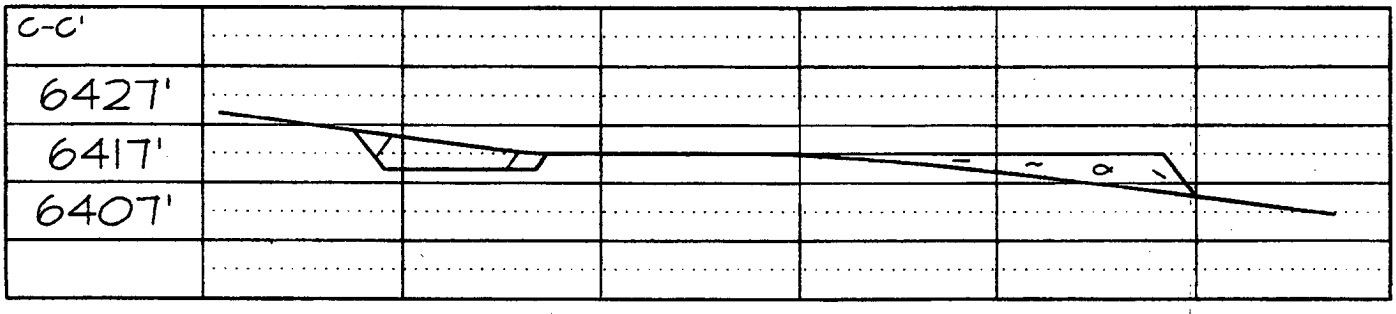


PLAT NOTE:

SURFACE OWNER Bureau of Land Management







FILENAME: 3061LT	SHEET 2 OF 6	NCE SURVEYS, INC.	DRAWN BY: EDO	CHECKED BY: JCE

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 53M

Lease:	AFE #: WAN.CNV.7194			AFE $:
Field Name: 31-6	Rig: UNSCHEDULED 2007 RIG 2	State: NM	County: RIO ARRIBA	API #:
Geoscientist: Glaser, Terry J	Phone: (832)486-2332	Prod. Engineer: Piotrowicz, Greg M.		Phone: +1 832-486-3486
Res. Engineer: Pena, David Fernando	Phone: 832-486-2328	Proj. Field Lead: Fransen, Eric E.		Phone:

Primary Objective (Zones):

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

Location: Surface	Datum Code: NAD 27				**Straight Hole**
Latitude: 36.839800	Longitude: -107.420330	X:	Y:	Section: 1	Range: 6W
Footage X: 660 FWL	Footage Y: 1980 FSL	Elevation: 6415 (FT)	Township: 30N		
Tolerance:					

Location Type: Summer Only | Start Date (Est.): | Completion Date: | Date In Operation:

Formation Data: Assume KB = 6431 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	6215	☐			13-1/2 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	1331	5100	☐			
OJAM	2451	3980	☐			Possible water flows.
KRLD	2591	3840	☐			
FRLD	3011	3420	☐			Possible gas.
PCCF	3231	3200	☐			
LEWS	3431	3000	☐			
Intermediate Casing	3531	2900	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4496	1935	☐			
CLFH	5341	1090	☐			Gas; possibly wet
MENF	5371	1060	☐			Gas.
PTLK	5606	825	☐			Gas.
GLLP	6896	-465	☐			Gas. Possibly wet.
GRHN	7606	-1175	☐			Gas possible, highly fractured
CBBO	7791	-1360	☐			Gas
TOTAL DEPTH DK	7956	-1525	☐			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

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 53M

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

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

Additional Information:

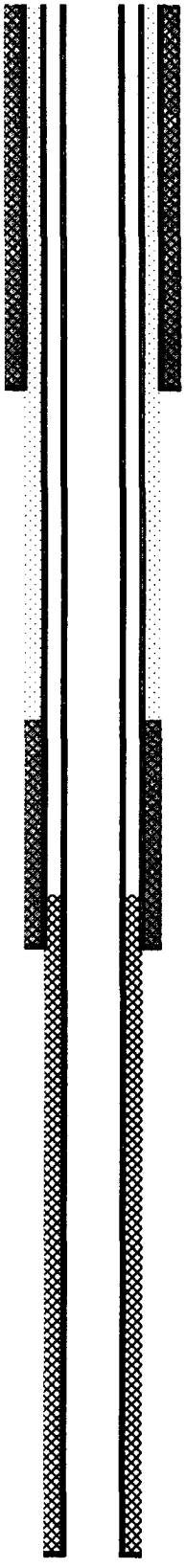
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - TD is 310' below top of Greenhorn

General/Work Description - COP does not own DK - Need to propose DK DB to Burlington

Printed on: 8/8/2006 8:07:32 AM

San Juan 31-6 # 53M
Halliburton Cementing Program



SURFACE CASING :

Drill Bit Diameter	13.5	"	
Casing Outside Diameter	9.625	"	Casing Inside Diam. 9.001 "
Casing Weight	32.3	ppf	
Casing Grade	H-40		
Shoe Depth	235	'	
Cement Yield	1.21	cuft/sk	
Cement Density	15.6	lb/gal	
Excess Cement	125	%	
Cement Required	**214**	**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	3531	'	
Lead Cement Yield	2.88	cuft/sk	
Lead Cement Density	11.5	lb/gal	
Lead Cement Excess	150	%	
Lead Cement Required	**352**	**sx**	
Tail Cement Length	706.2	'	
Tail Cement Yield	1.33	cuft/sk	
Tail Cement Density	13.5	lb/gal	
Tail Cement Excess	150	%	
Tail Cement Required	**207**	**sx**	

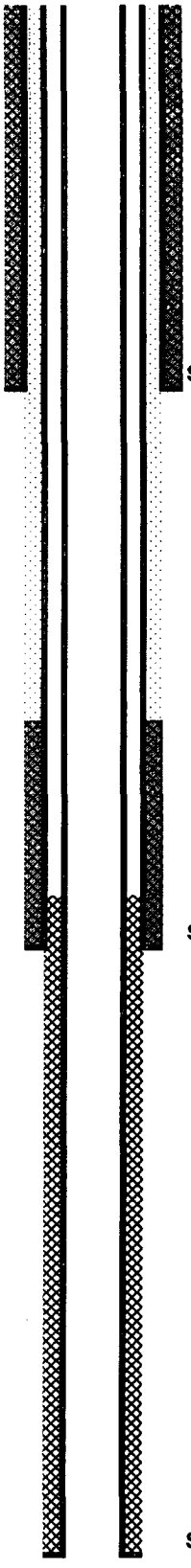
SHOE 3531 ', 7 ", 20 ppf, J-55 STC

PRODUCTION CASING :

Drill Bit Diameter	6.25	"	
Casing Outside Diameter	4.5	"	Casing Inside Diam. 4.000 "
Casing Weight	11.6	ppf	
Casing Grade	N-80		
Top of Cement	3331	'	200' inside intermediate casing
Shoe Depth	7956	'	
Cement Yield	1.45	cuft/sk	
Cement Density	13.1	lb/gal	
Cement Excess	50	%	
Cement Required	**486**	**sx**	

SHOE 7956 ', 4.5 ", 11.6 ppf, N-80 LTC

San Juan 31-6 # 53M
Schlumberger Cementing Program



SURFACE CASING :

Drill Bit Diameter	13.5	"	
Casing Outside Diameter	9.625	"	Casing Inside Diam. 9.001 "
Casing Weight	32.3	ppf	
Casing Grade	H-40		
Shoe Depth	235	'	
Cement Yield	1.17	cuft/sk	
Cement Density	15.8	lb/gal	
Excess Cement	125	%	
Cement Required	**222**	**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	3531	'	
Lead Cement Yield	2.72	cuft/sk	
Lead Cement Density	11.7	lb/gal	
Lead Cement Excess	150	%	
Lead Cement Required	**373**	**sx**	
Tail Cement Length	706.2	'	
Tail Cement Yield	1.31	cuft/sk	
Tail Cement Density	13.5	lb/gal	
Tail Cement Excess	150	%	
Tail Cement Required	**210**	**sx**	

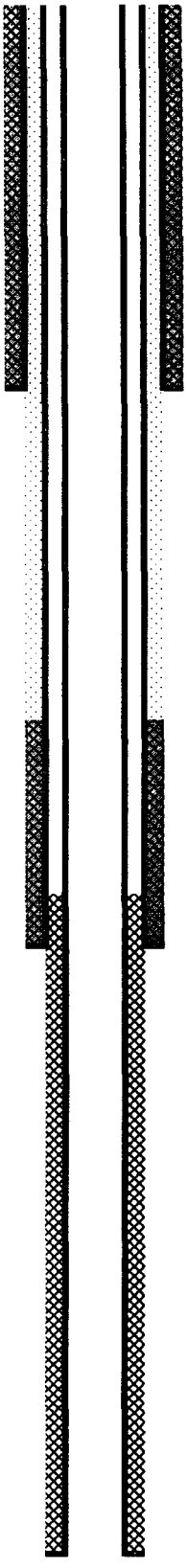
SHOE 3531 ', 7 ", 20 ppf, J-55 STC

PRODUCTION CASING :

Drill Bit Diameter	6.25	"	
Casing Outside Diameter	4.5	"	Casing Inside Diam. 4.000 "
Casing Weight	11.6	ppf	
Casing Grade	N-80		
Top of Cement	3331	'	200' inside intermediate casing
Shoe Depth	7956	'	
Cement Yield	1.44	cuft/sk	
Cement Density	13	lb/gal	
Cement Excess	50	%	
Cement Required	**489**	**sx**	

SHOE 7956 ', 4.5 ", 11.6 ppf, N-80 LTC

San Juan 31-6 # 53M
Schlumberger Cementing Program



SURFACE CASING :

Drill Bit Diameter	13.5	"	
Casing Outside Diameter	9.625	"	Casing Inside Diam. 9.001 "
Casing Weight	32.3	ppf	
Casing Grade	H-40		
Shoe Depth	235	'	
Cement Yield	1.33	cuft/sk	
Cement Density	14.8	lb/gal	
Excess Cement	125	%	
Cement Required	**195**	**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	3531	'	
Lead Cement Yield	2.1	cuft/sk	
Lead Cement Density	11.7	lb/gal	
Lead Cement Excess	150	%	
Lead Cement Required	**483**	**sx**	
Tail Cement Length	706.2	'	
Tail Cement Yield	1.31	cuft/sk	
Tail Cement Density	13.5	lb/gal	
Tail Cement Excess	150	%	
Tail Cement Required	**210**	**sx**	

SHOE 3531 ', 7 ", 20 ppf, J-55 STC

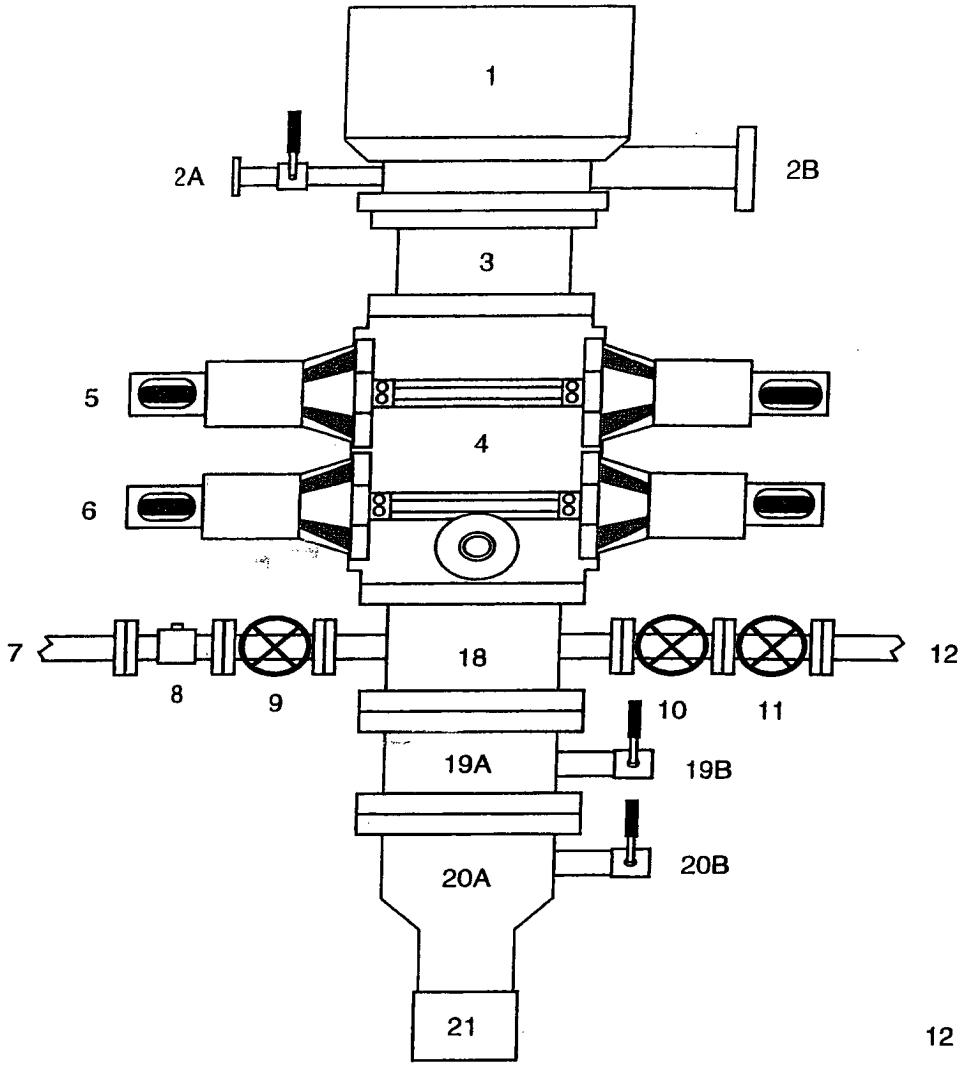
PRODUCTION CASING :

Drill Bit Diameter	6.25	"	
Casing Outside Diameter	4.5	"	Casing Inside Diam. 4.000 "
Casing Weight	11.6	ppf	
Casing Grade	N-80		
Top of Cement	3331	'	200' inside intermediate casing
Shoe Depth	7956	'	
Cement Yield	1.44	cuft/sk	
Cement Density	13	lb/gal	
Cement Excess	50	%	
Cement Required	**489**	**sx**	

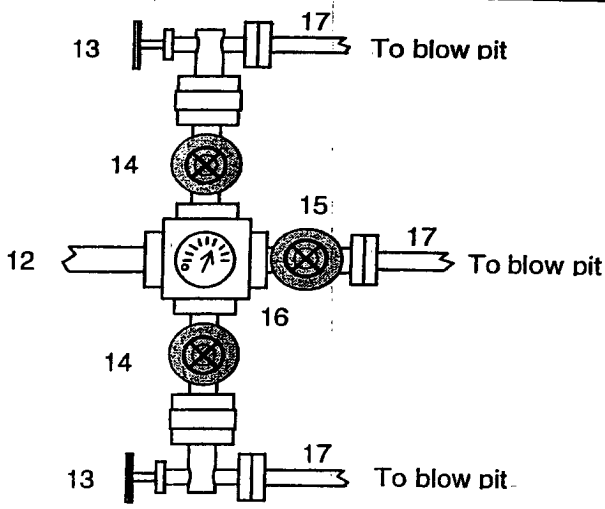
SHOE 7956 ', 4.5 ", 11.6 ppf, N-80 LTC

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



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

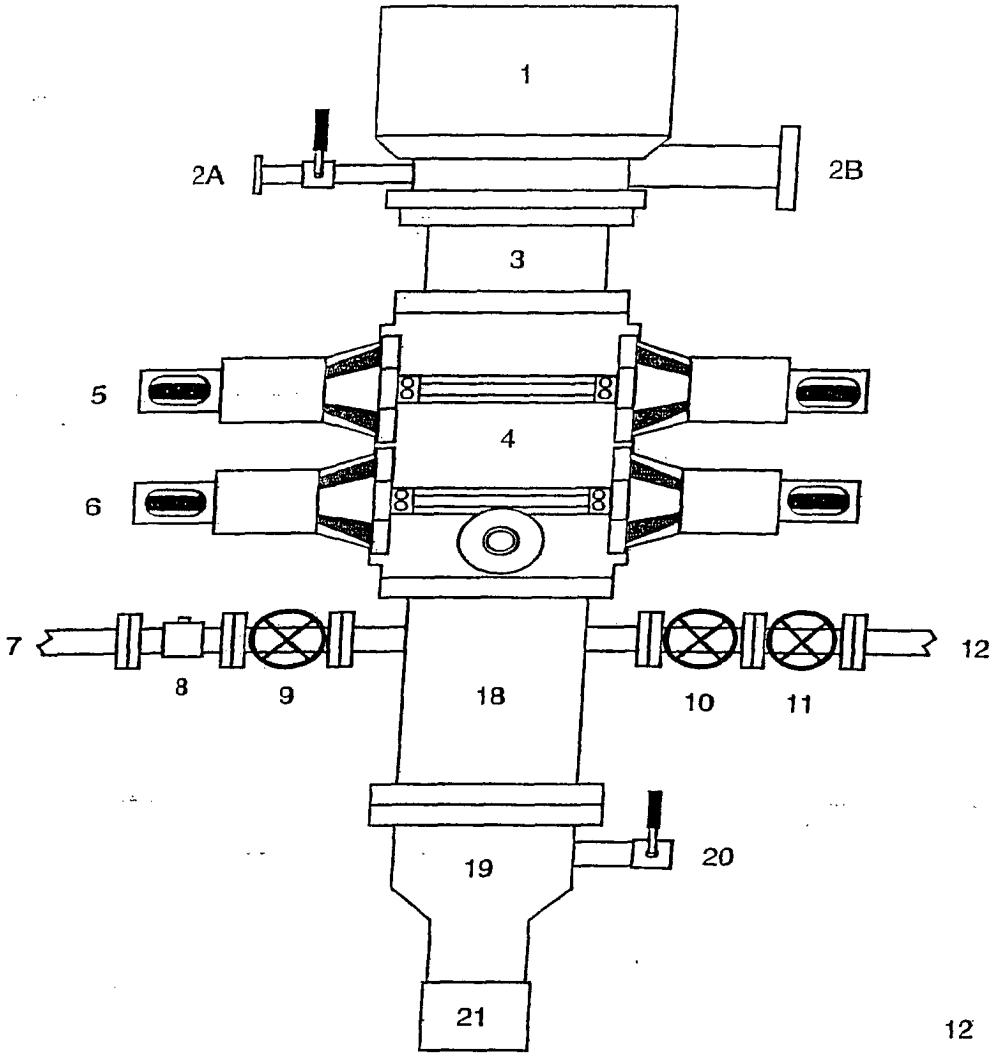


After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 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.

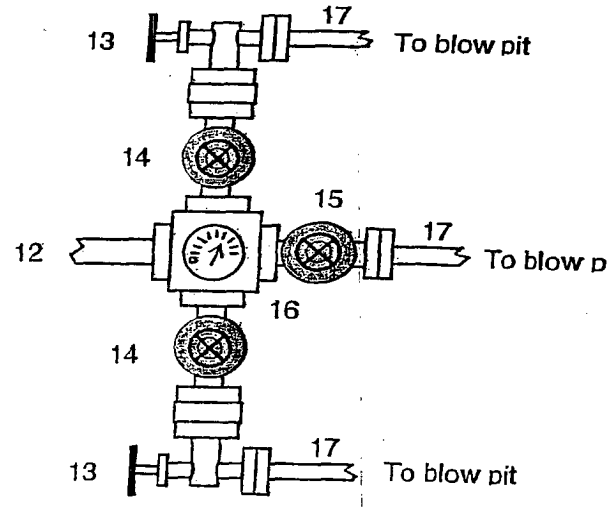
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

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

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



, 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 st 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 st) 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" asing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 inutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory quirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then an 8-3/4" ole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

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