UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD JAN 10'07
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2006 AUG 2 AM 11 23
RECEIVED
070 FARMINGTON NM

1a.	Type of Work DRILL	5. Lease Number NMSF-078999 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. Farm or Lease Name 9. Well Number 25M
4.	Location of Well Unit H (SENE), 2499' FNL & 660' FEL, Latitude 36° 51.3865'N Longitude 107° 27.6548'W	10. Field, Pool, Wildcat Basin Dakota / Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 33, T31N, R06W API # 30-039- 30013
14.	Distance in Miles from Nearest Town	12. County: Rio Arriba; 13. State: NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 660'	
16.	Acres in Lease	17. Acres Assigned to Well MV & DK - 320 acres E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease	
19.	Proposed Depth 8079'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6478' GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Patsy Clugston Sr. Regulatory Specialist	Date 7/31/06

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE AFM DATE 1/9/07

Archaeological Report attached
Threatened and Endangered Species Report attached
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.

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

1/11/07 NMOCD

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

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

RCVD JAN10'07
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-039-30013	72319 \ 71599	BLANCO MESAVERDE \ BASIN DAKOTA

4 Property Code	5 Property Name	6 Well Number
31328	SAN JUAN 31-6 UNIT	25M

7 OGRID No.	8 Operator Name	9 Elevation
217817	CONOCOPHILLIPS COMPANY	6478'

10 Surface Location

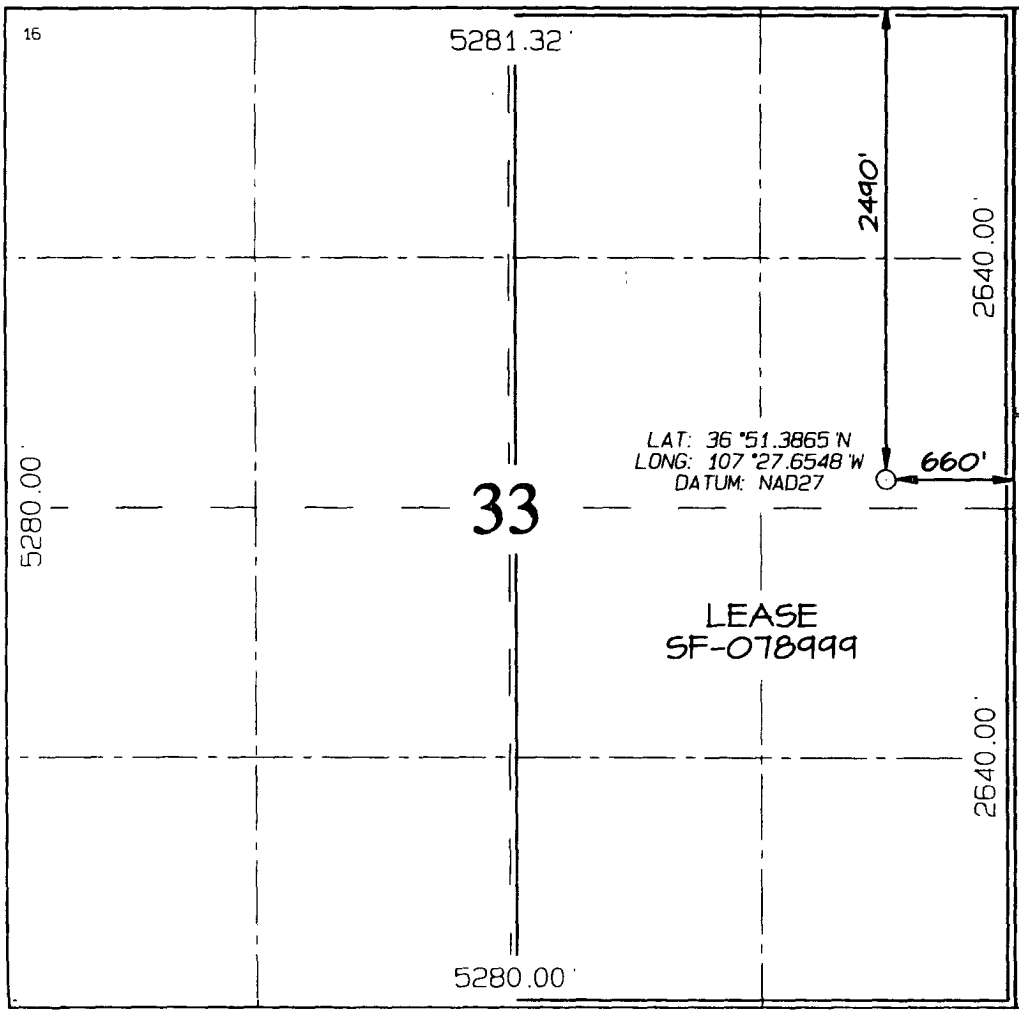
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	33	31N	6W		2490	NORTH	660	EAST	RIO ARRIBA

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.
320.0 Acres - E/2 (MV) 320.0 Acres - E/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

July 6, 2006
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

Date Revised: JUNE 14, 2005
Date of Survey: MAY 26, 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- 30013

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
Fedral Lease - SF-078999

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
#25M

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 H : 2489' feet from the North line and 660' feet from the East line
Section 33 Township 31N Rng 6W NMPM County Rio Arriba

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6478' GL

Pit or Below-grade Tank Application ☐ or Closure ☐ >200

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

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 7/31/2006

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 JAN 11 2007

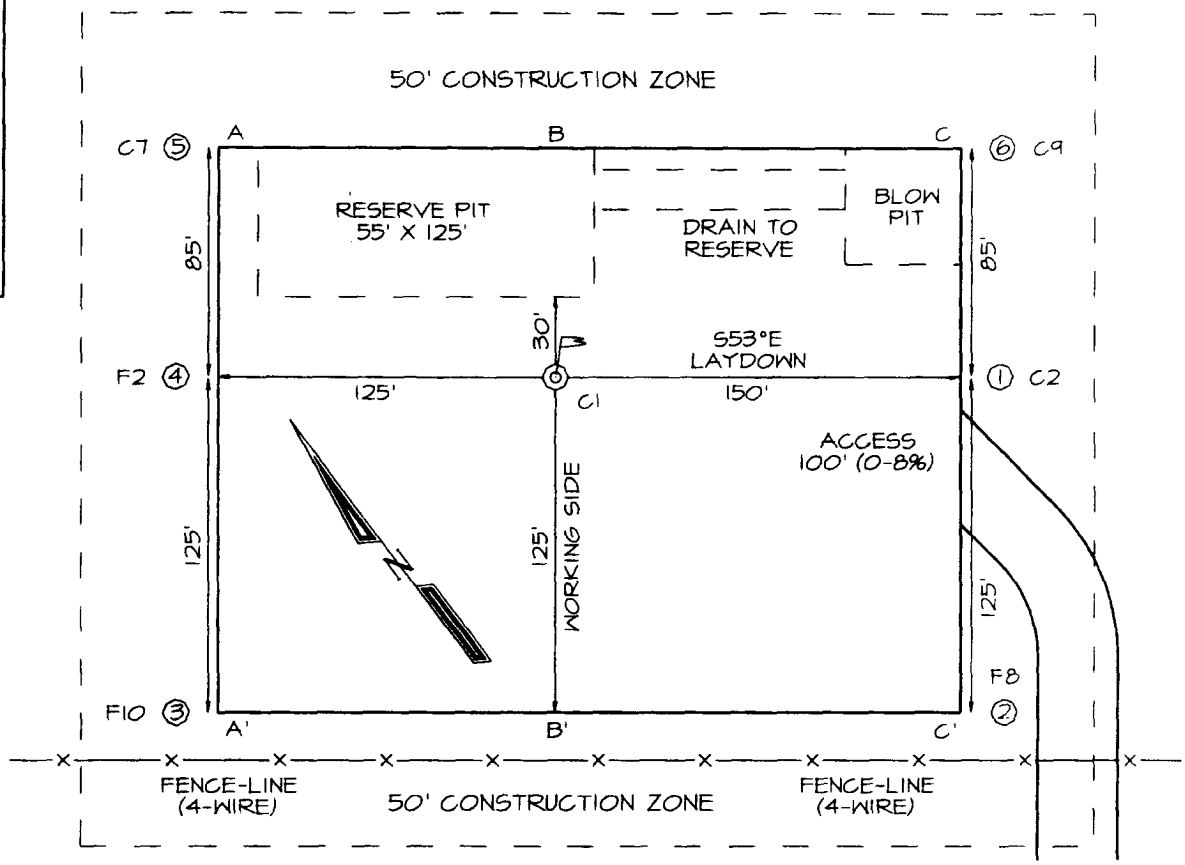
Conditions of Approval (if any):

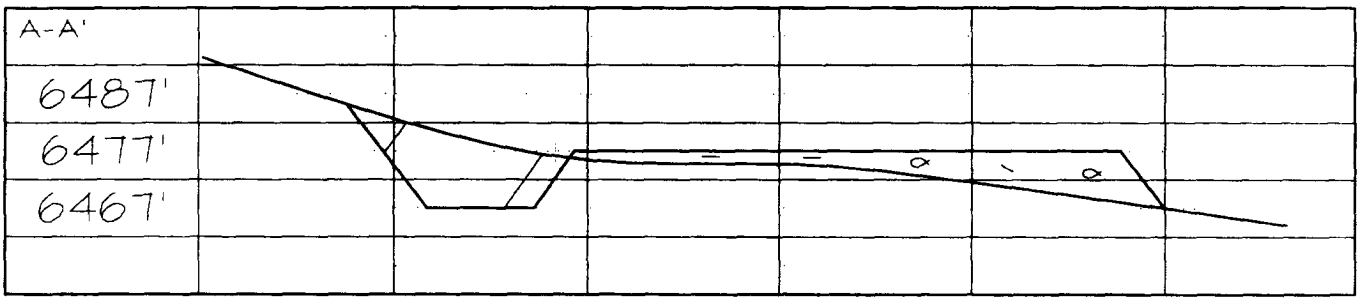
CONOCOPHILLIPS COMPANY SAN JUAN 31-6 UNIT #25M
2490' FNL & 660' FEL, SECTION 33, T31N, R6W, NMPM
RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6478'

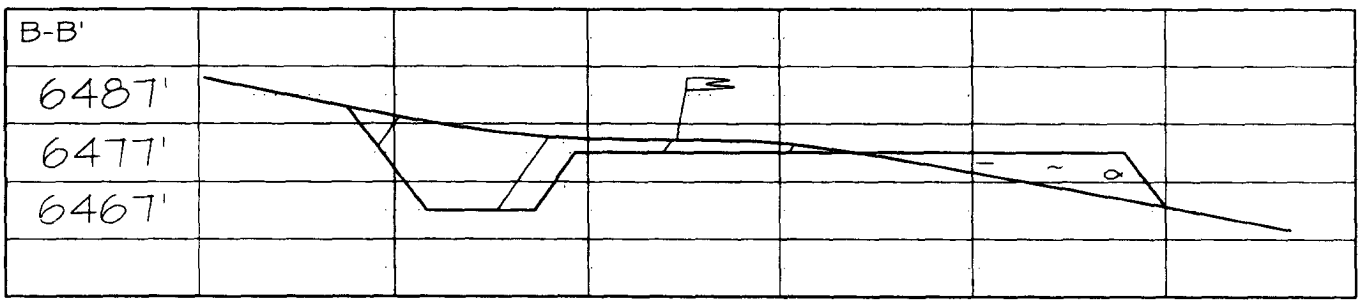
PLAT NOTE:

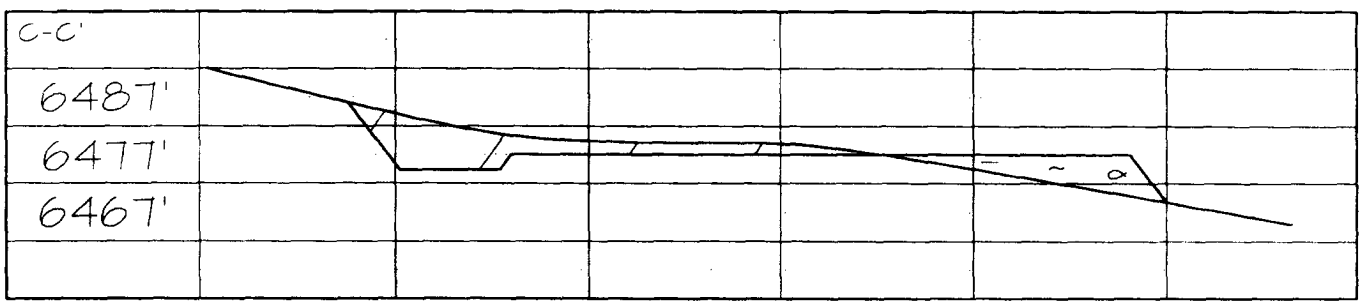
SURFACE OWNER State of New Mexico Game & Fish Dept

LATITUDE: 36.85644° N
LONGITUDE: 107.46091° W
DATUM: NAD1927









ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 25M

Lease:	AFE #: WAN.CNV.6209			AFE $:
Field Name: 31-6	Rig: H&P 283	State: NM	County: RIO ARRIBA	API #:
Geoscientist: Glaser, Terry J	Phone: (832)486-2332	Prod. Engineer: Moody, Craig E.		Phone: 486-2334
Res. Engineer: Tomberlin, Timothy A	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: 36.856440	Longitude: -107.460910	X: 0.00	Y: 0.00	Section: 33	Range: 6W
Footage X: 660 FEL	Footage Y: 2490 FNL	Elevation: 6478 (FT)	Township: 31N		
Tolerance:					

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

Formation Data: Assume KB = 6494 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	235 ~~250~~	6278	☐			12-1/4" hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	584	5910	☐			
OJAM	1964	4530	☐			Possible water flows.
KRLD	2163	4331	☐			
FRLD	3064	3430	☐			Possible gas.
PCCF	3424	3070	☐			
LEWS	3624	2870	☐			
Intermediate Casing	3724	2770	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CLFH	5404	1090	☐			Gas; possibly wet
MENF	5444	1050	☐			Gas.
PTLK	5714	780	☐			Gas.
GLLP	7069	-575	☐			Gas. Possibly wet.
GRHN	7729	-1235	☐			Gas possible, highly fractured
CBBO	7894	-1400	☐			Gas
TOTAL DEPTH DK	8079	-1585	☐			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 25M

Logging Program:

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

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

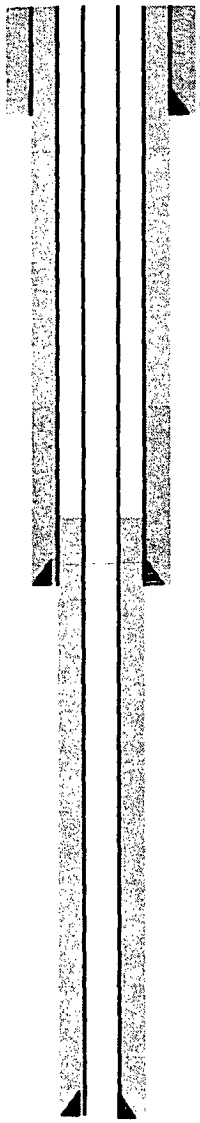
Additional Information:

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

Comments:

San Juan 31-6 #25M

APD Cement Calculations



HOLE:	12.25 "
CSG OD:	9.625 "
CSG ID:	9.001 "
WGT:	32.3 ppf
GRADE:	H-40
EXCESS:	125 %
DEPTH:	235'

SURFACE:

Option 1

148 sx	Comp. Strength		
30.8 bbls	6 hrs	250	psi
172.9 cuft	8 hrs	500	psi
1.17 ft^3/sx			psi
15.8 ppg			
4.973 gal/sx			

Class G Cement
+ 3% S001 Calcium Chloride
+ 0.25 lb/sx D029 Cellophane Flakes

Option 2

143 sx	Comp. Strength		
30.8 bbls	6 hrs	250	psi
172.9 cuft	8 hrs	500	psi
1.21 ft^3/sx			
15.6 ppg			
5.29 gal/sx			

Standard Cement
+ 3% Calcium Chloride
+ 0.25 lb/sx Flocele

Option 3

65 sx	Comp. Strength		
18.6 bbls	8 hrs	475	psi
104.3 cuft	24 hrs	1375	psi
1.61 ft^3/sx			
14.5 ppg			
7.41 gal/sx			

Type I-II Ready Mix
+ 20% Fly Ash

HOLE:	8.75 "
CSG OD:	7 "
CSG ID:	6.456 "
WGT:	20 ppf
GRADE:	J-55
EXCESS:	150 %
TAIL:	744.8'
DEPTH:	3724'

INTERMEDIATE LEAD:

Option 1

394 sx	Comp. Strength		
191.1 bbls	9 hrs	300	psi
1072.8 cuft	48 hrs	525	psi
2.72 ft^3/sx			
11.7 ppg			
15.74 gal/sx			

Class G Cement
+ 3% D079 Extender
+ 0.20% D046 Antifoam
+ 10 lb/sx Phenoseal

Option 2

413 sx	Comp. Strength		
191.1 bbls	1:47 hrs	50	psi
1072.8 cuft	12 hrs	350	psi
2.60 ft^3/sx	24 hrs	450	psi
11.5 ppg			
14.62 gal/sx			

Type III Ashgrove Cement
+ 30 lb/sx San Juan Poz
+ 3% Bentonite
+ 5.0 lb/sx Phenoseal

Option 3

408 sx	Comp. Strength		
191.1 bbls	3 hrs	100	psi
1072.8 cuft	24 hrs	443	psi
2.63 ft^3/sx			
11.7 ppg			
15.92 gal/sx			

Class G Cement
+ 3% D079 Extender
+ 0.20% D046 Antifoam
+ 1.0 lb/bbl CemNet

INTERMEDIATE TAIL:

Option 1

221 sx	Comp. Strength		
51.6 bbls	3:53	500	psi
289.6 cuft	8:22	1000	psi
1.31 ft^3/sx	24 hrs	3170	psi
13.5 ppg	48 hrs	5399	psi
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 Gilsonite Extender
+ 0.1% D046 Antifoamer
+ 6 lb/sx Phenoseal

Option 2

218 sx	Comp. Strength		
51.6 bbls	2:05	50	psi
289.6 cuft	4:06	500	psi
1.33 ft^3/sx	12 hrs	1250	psi
13.5 ppg	24hrs	1819	psi
5.52 gal/sx			

50/50 Poz: Standard Cement
+ 2% Bentonite
+ 6.0 lb/sx Phenoseal

Option 3

226 sx	Comp. Strength		
51.6 bbls	24 hrs	1850	psi
289.6 cuft	48 hrs	3411	psi
1.28 ft^3/sx			
13.5 ppg			
5.255 gal/sx			

50/50 Poz: Class G Cement
+ 2% D020 Bentonite
+ 5.0 lb/sx D024 Gilsonite Extender
+ 2% S001 Calcium Chloride
+ 0.1% D046 Antifoamer
+ 0.15% D065 Dispersant
+ 1.0 lb/bbl CemNet

HOLE:	6.25 "
CSG OD:	4.5 "
CSG ID:	4 "
WGT:	11.6 ppf
GRADE:	N-80
EXCESS:	50 %
DEPTH:	8079'

PRODUCTION:

Option 1

482 sx	Comp. Strength		
123.6 bbls	7 hrs	500	psi
693.9 cuft	24 hrs	2100	psi
1.44 ft^3/sx			
13.0 ppg			
6.47 gal/sx			

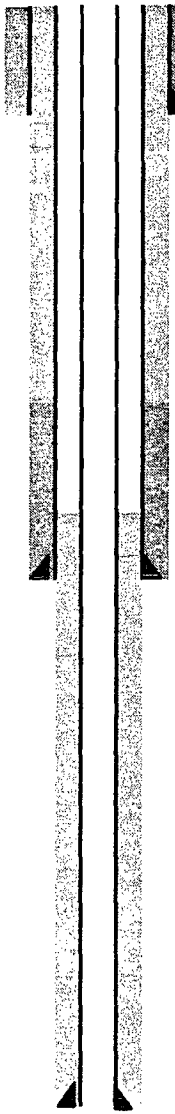
50/50 Poz: Class G Cement
+ 0.25 lb/sx D029 Cellophane Flakes
+ 3% D020 Bentonite
+ 1.0 lb/sx D024 Gilsonite Extender
+ 0.25% D167 Fluid Loss
+ 0.25% D065 Dispersant
+ 0.1% D800 Retarder
+ 0.1% D046 Antifoamer
+ 3.5 lb/sx Phenoseal

Option 2

479 sx	Comp. Strength		
123.6 bbls	9:32	50	psi
693.9 cuft	12 hrs	500	psi
1.45 ft^3/sx	13:29	1026	psi
13.1 ppg	24 hrs	2300	psi
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

San Juan 31-6 #25M



SURFACE:

HOLE:	12.25 "
CSG OD:	9.625 "
CSG ID:	9.001 "
WGT:	32.3 ppf
GRADE:	H-40
EXCESS:	125 %
DEPTH:	235 '

INTERMEDIATE LEAD:

	Option 4		Option 5	
	372 sx	Comp. Strength	**511 sx**	Comp. Strength
	191.1 bbls	1:47 50 psi	191.1 bbls	10:56 500 psi
	1072.8 cuft	12 hrs 350 psi	1072.8 cuft	42 hrs 1012 psi
	2.88 ft^3/sx	24 hrs 450 psi	2.10 ft^3/sx	
	11.5 ppg		11.7 ppg	
	16.85 gal/sx		11.724 gal/sx	
	Standard Cement		75% Type XI / 25% Class G Cement	
	+ 3% Econolite (Extender)		+ 0.25 lb/sx D029 Cellophane Flakes	
	+ 10 lb/sx Phenoseal		+ 3% D079 Extender	
			+ 0.20% D046 Antifoam	

HOLE:	8.75 "
CSG OD:	7 "
CSG ID:	6.456 "
WGT:	20 ppf
GRADE:	J-55
EXCESS:	150 %
TAIL:	744.8 '
DEPTH:	3724 '

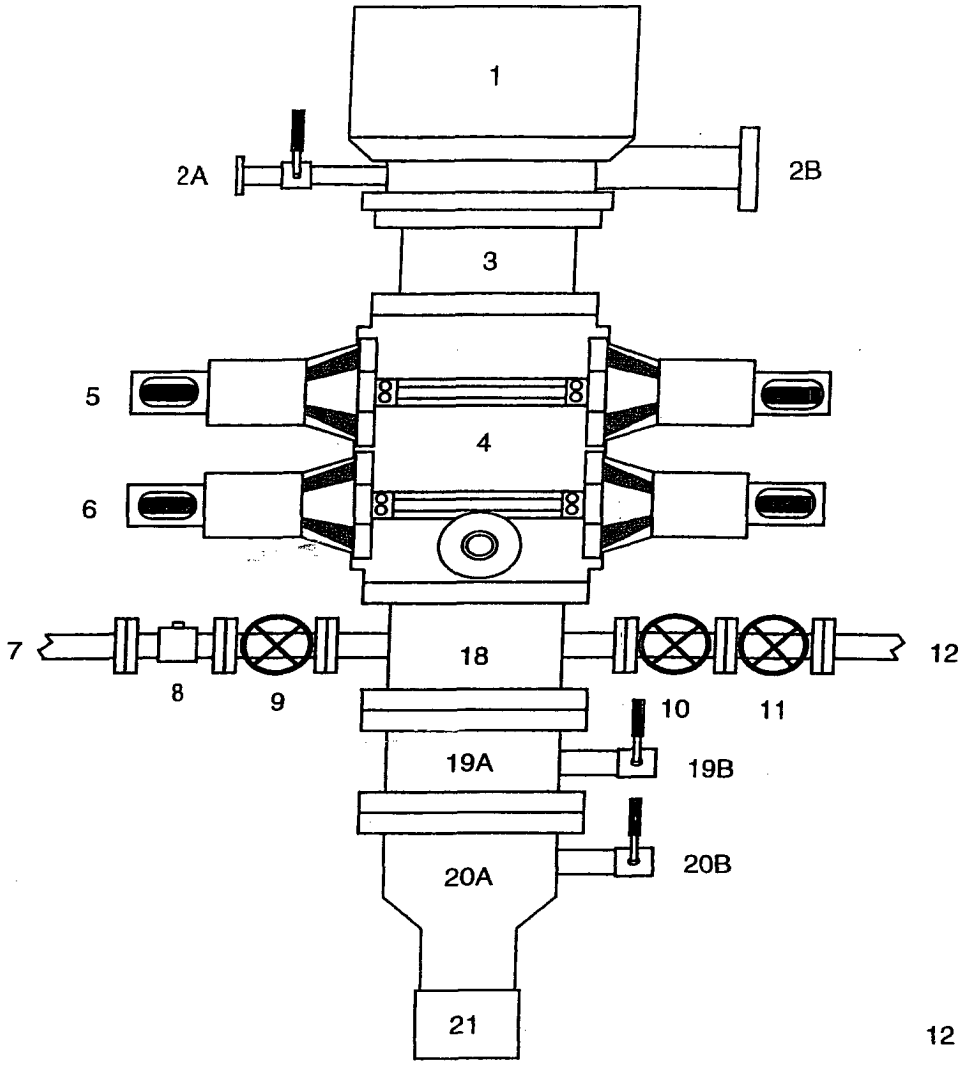
INTERMEDIATE TAIL:

HOLE:	6.25 "
CSG OD:	4.5 "
CSG ID:	4 "
WGT:	11.6 ppf
GRADE:	N-80
EXCESS:	50 %
DEPTH:	8079 '

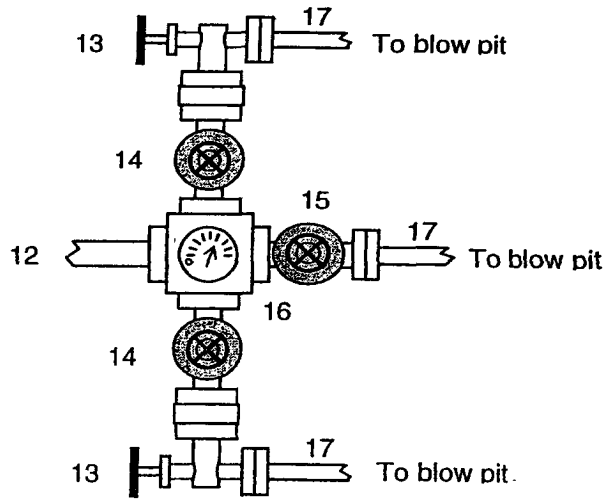
PRODUCTION:

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



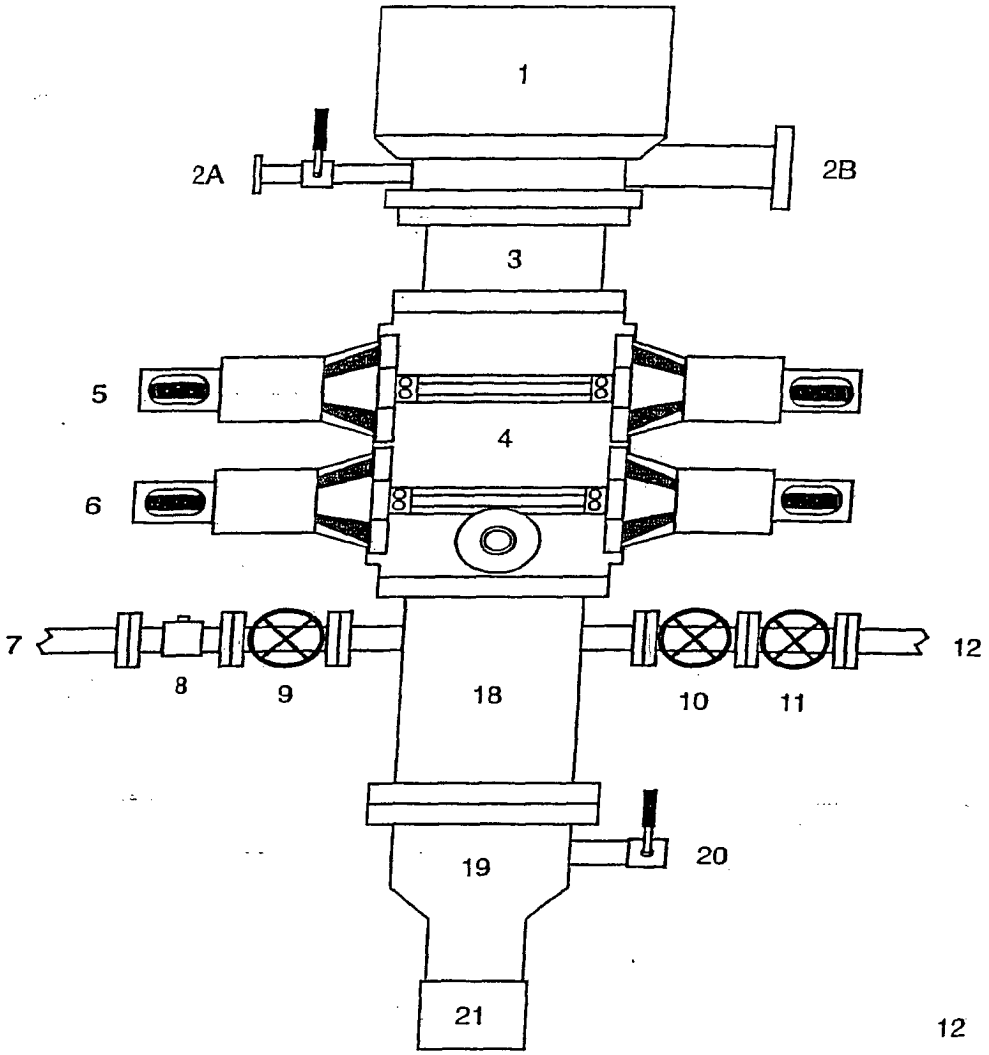
After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200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

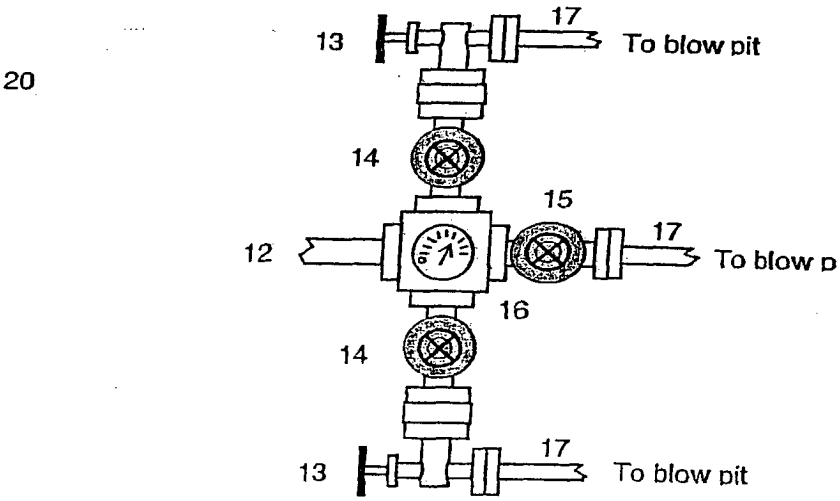
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

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 [redacted] 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.

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

Directions from the Intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM

to ConocoPhillips Company San Juan 31-6 Unit #25M

2490' FNL & 660' FEL, Section 33, T31N, R6W, NMPM, Rio Arriba County, NM

From the intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM, travel Easterly on US Hwy 64 for 38.0 miles to State Hwy 527 (Simms Hwy);

Go left (North-westerly) on State Hwy 527 (Simms Hwy) for 7.9 miles to Rosa Road @ La Jara Station;

Go right (Northerly) on Rosa Road for 6.5 miles to fork in road;

Go left which is straight (North-easterly) remaining on Rosa Road for 1.6 miles to 4-way intersection;

Go left (Westerly) @ 4-way intersection for 2.5 miles to fork in road;

Go right (North-westerly) for 0.3 miles to new access on right-hand side of existing roadway which continues for 100' to staked location.