RCVD MAR 27'07
OIL CONS. DIV.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 JAN 8 PM 4 22

RECEIVED
070 FARMINGTON NM

1a. Type of Work
DRILL

5. Lease Number
NM-011350-A
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
ConocoPhillips

7. Unit Agreement Name
San Juan 29-5 Unit

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. Farm or Lease Name
San Juan 29-5 Unit

9. Well Number
#35M

4. Location of Well
Unit D (NWNW), 610' FNL & 755' FWL,

Latitude 36° 41.2592'N
Longitude 107° 21.0353'W

10. Field, Pool, Wildcat
Blanco MV/Basin Dakota

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 34, T29N, R5W

API # 30-039-30165

14. Distance in Miles from Nearest Town
7 Miles from Gobernador

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
610'

16. Acres in Lease

17. Acres Assigned to Well
MV/DK- 320 acres W/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease

19. Proposed Depth
8120'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6792' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Rhonda Rolland
Regulatory Technician

Date 1/5/07

PERMIT NO.

APPROVED BY [signature] TITLE AFM APPROVAL DATE

DATE 3/23/07

Archaeological Report attached
Threatened and Endangered Species Report attached
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

NOTIFY AZTEC OCD 24hrs
IN TIME TO WITNESS Csg & Cement

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.

3/28/07

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

COPY

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-039-30155	72319 / 71599	BLANCO MESAVERDE / BASIN DAKOTA

4 Property Code	5 Property Name	6 Well Number
31325	SAN JUAN 29-5 UNIT	35M

7 OGRID No.	8 Operator Name	9 Elevation
217817	CONOCOPHILLIPS COMPANY	6792

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
D	34	29N	5W		610	NORTH	755	WEST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

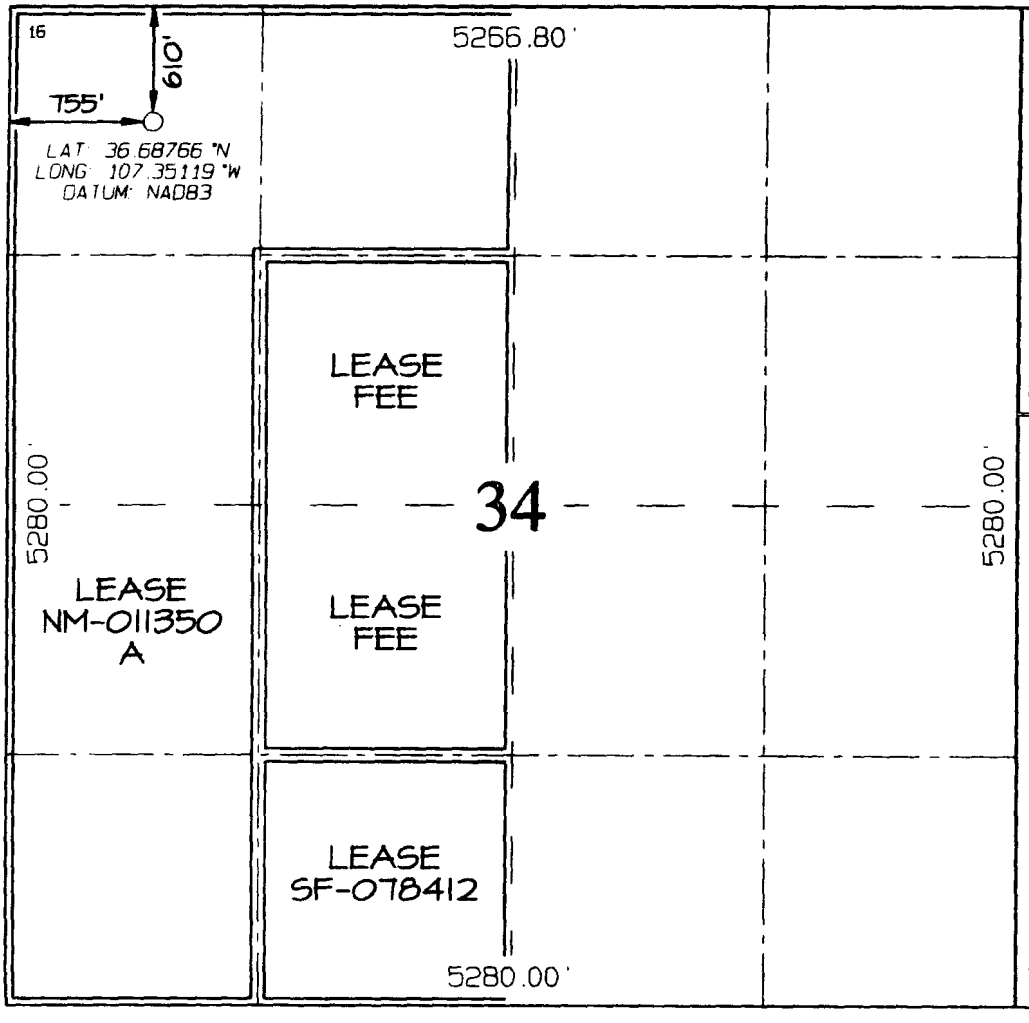
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

RCVD MAR 27 '07

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320.0 Acres - W/2			

OIL CONS. DIV.
DIST. 3

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

Signature

Virgil E. Chavez

Printed Name

Projects & Operations Lead

Title

August 30, 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 of Survey AUGUST 1, 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. 30-039-30155
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. NM-011350

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 29-5 Unit

1. Type of Well: Oil Well ☐ Gas Well ☒ Other
8. Well Number: #35M
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 Dakota
4. Well Location
Unit Letter D : 610' feet from the North line and 755' feet from the West line
Section 34 Township 29N Rng 5W NMPM County Rio Arriba
11. Elevation (*Show whether DR, RKB, RT, GR, etc.*) 6792'

Pit or Below-grade Tank Application ☐ or Closure ☐
Pit type New Drill Depth to Groundwater <50' Distance from nearest fresh water well >1000' Distance from nearest surface water >1000'
Pit Liner Thickness: N/A 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.

New Drill, Unlined:

ConocoPhillips proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on ConocoPhillips' interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be unlined pits as detailed in ConocoPhillips' General Plan dated June 2005 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be unlined as per the risk ranking criteria. ConocoPhillips anticipates closing these pits according to 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 Kandis Roland TITLE Regulatory Technician DATE 1/8/2007

Type or print name Kandis Roland E-mail address: kburns@br-inc.com Telephone No. 505-326-9518

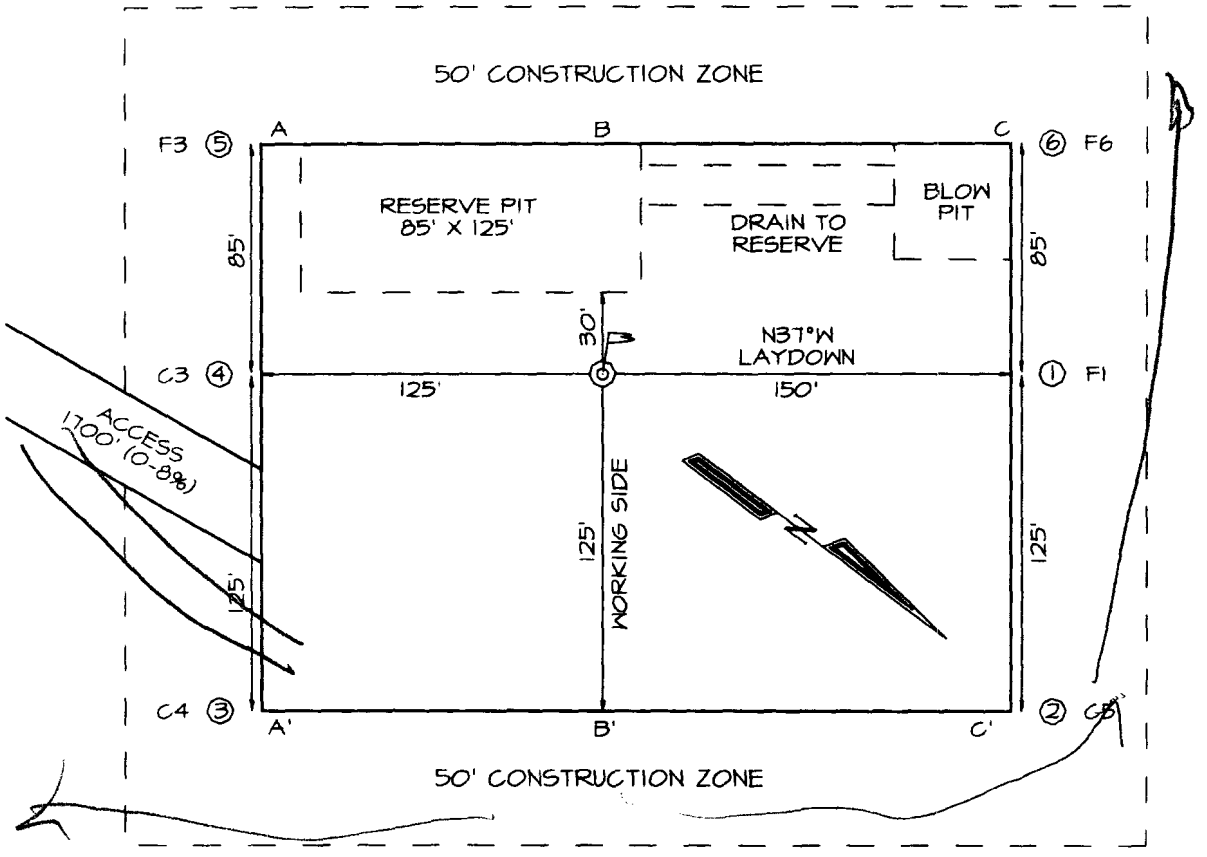
For State Use Only

APPPROVED BY _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. ☆ DATE MAR 28 2007

Conditions of Approval (if any):

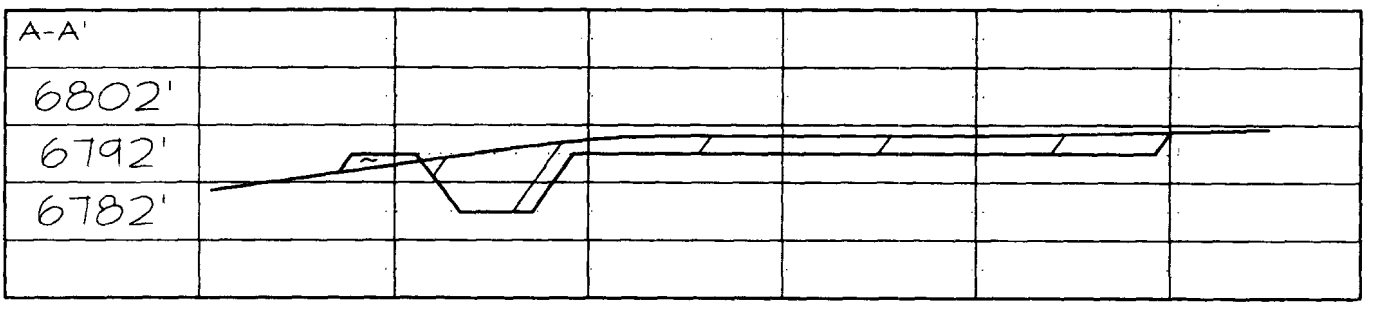
CONOCOPHILLIPS COMPANY SAN JUAN 29-5 UNIT #35M
610' FNL & 755' FWL, SECTION 34, T29N, R5W, NMPM
RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6792'

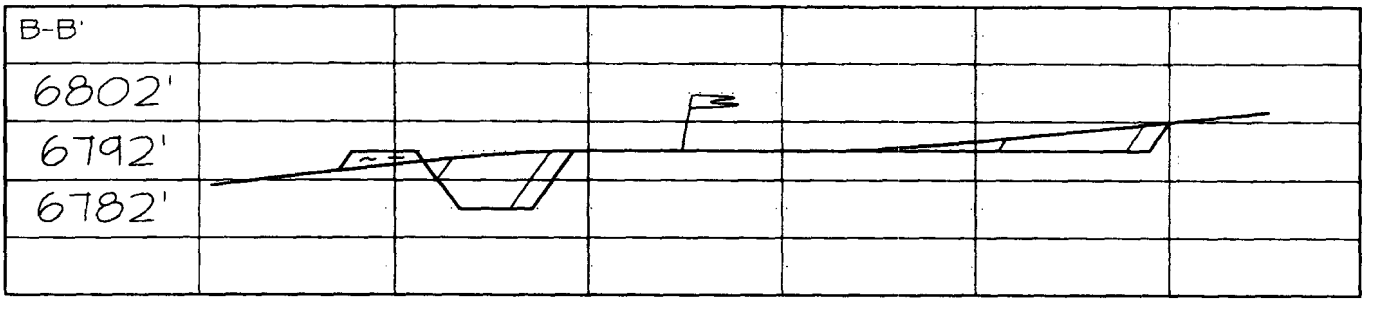
LATITUDE: 36.68766° N
LONGITUDE: 107.35119° W
DATUM: NAD1983

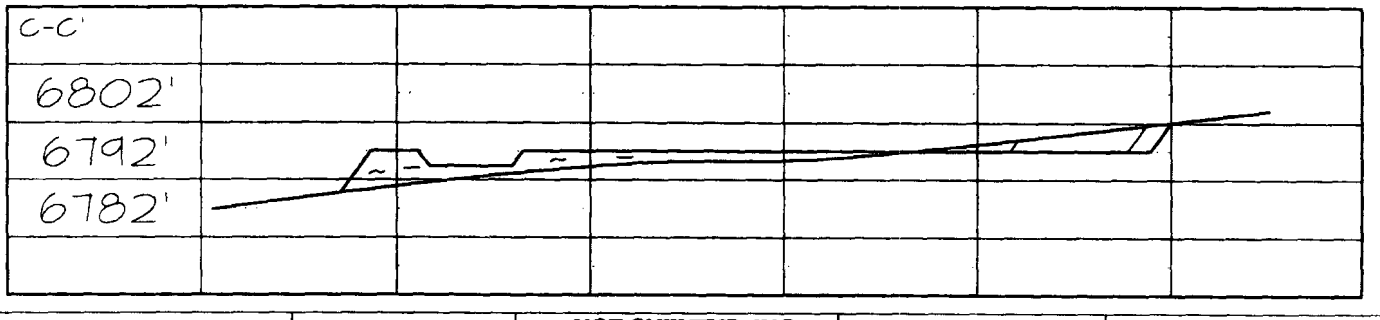


PLAT NOTE:

SURFACE OWNER Bureau of Land Management







FILENAME: 29534DT	SHEET 2 OF 6	NCE SURVEYS, INC.	DRAWN BY: EDO	CHECKED BY: JCE

ConocoPhillips

San Juan Business Unit

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 29-5 35M

Lease:	AFE #: WAN.CNV.6165			AFE $:
Field Name: 29-5	Rig: Aztec Rig 184	State: NM	County: RIO ARRIBA	API #:
Geoscientist: Glaser, Terry J	Phone: (832)486-2332	Prod. Engineer:		Phone: 486-2334
Res. Engineer:	Phone: 832-486-2385	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: 36.687652	Longitude: -107.350589	X:	Y:	Section: 34	Range: 5W
Footage X: 755 FWL	Footage Y: 610 FNL	Elevation: 6792 (FT)	Township: 29N		
Tolerance:					

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

Formation Data: Assume KB = 6808 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NCMT	1633	5175	☐			
OJAM	2908	3900	☐			Possible water flows.
KRLD	3108	3700	☐			
FRLD	3478	3330	☐			Possible gas.
PCCF	3768	3040	☐			
LEWS	3968	2840	☐			
CHRA	4728	2080	☐			
CLFH	5628	1180	☐			Gas; possibly wet
MENF	5668	1140	☐			Gas.
PTLK	5938	870	☐			Gas.
GLLP	7198	-390	☐			Gas. Possibly wet.
GRHN	7876	-1068	☐			Gas possible, highly fractured
GRRS	7936	-1128	☐			
TWLS	8003	-1195	☐			Gas
CBBO	8054	-1246	☐			Gas
CBRL	8065	-1257	☐			
TD	8120	-1312	☐			

Reference Wells:

Reference Type	Well Name	Comments
Intermediate	SJ 29-5 70M	28-29N-5W-SW, KB = 6662

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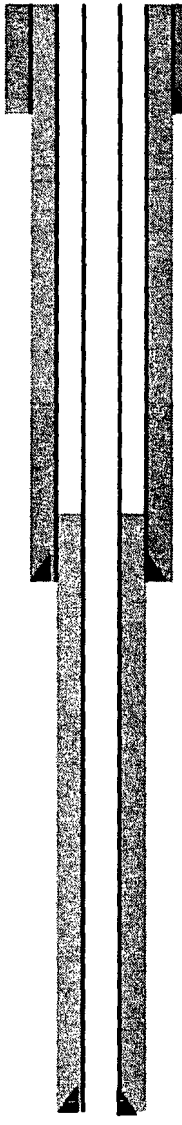
San Juan 29-5 Unit 35M APD Cement Calculations



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

DEPTH: ~~420~~ 200'

SURFACE:

Option 1			Option 2			Option 3		
79 sx	Comp. Strength		**76 sx**	Comp. Strength		**37 sx**	Comp. Strength	
16.4 bbls	6 hrs	250 psi	16.4 bbls	6 hrs	250 psi	10.6 bbls	8 hrs	475 psi
91.9 cuft	8 hrs	500 psi	91.9 cuft	8 hrs	500 psi	59.3 cuft	24 hrs	1375 psi
1.17 ft^3/sx		psi	1.21 ft^3/sx			1.61 ft^3/sx		
15.8 ppg			15.6 ppg			14.5 ppg		
4.973 gal/sx			5.29 gal/sx			7.41 gal/sx		
Class G Cement			Standard Cement			Type I-II Ready Mix		
+ 3% S001 Calcium Chloride			+ 3% Calcium Chloride			+ 20% Fly Ash		
+ 0.25 lb/sx D029 Cellophane Flakes			+ 0.25 lb/sx Flocele					

HOLE: 8.75 "
CSG OD: 7 "
CSG ID: 6.456 "
WGT: 23/20 ppf
GRADE: J-55
EXCESS: 50 %

TAIL: 813.6'

DEPTH: 4068'

INTERMEDIATE LEAD:

Option 1			Option 2			Option 3		
268 sx	Comp. Strength		**280 sx**	Comp. Strength		**277 sx**	Comp. Strength	
129.7 bbls	9 hrs	300 psi	129.7 bbls	1:47 hrs	50 psi	129.7 bbls	3 hrs	100 psi
728.0 cuft	48 hrs	525 psi	728.0 cuft	12 hrs	350 psi	728.0 cuft	24 hrs	443 psi
2.72 ft^3/sx			2.60 ft^3/sx	24 hrs	450 psi	2.63 ft^3/sx		
11.7 ppg			11.5 ppg			11.7 ppg		
15.74 gal/sx			14.62 gal/sx			15.92 gal/sx		
Class G Cement			Type III Ashgrove Cement			Class G Cement		
+ 3% D079 Extender			+ 30 lb/sx San Juan Poz			+ 3% D079 Extender		
+ 0.20% D046 Antifoam			+ 3% Bentonite			+ 0.20% D046 Antifoam		
+ 10 lb/sx Phenoseal			+ 5.0 lb/sx Phenoseal			+ 1.0 lb/bbl CemNet		

HOLE: 6.25 "
CSG OD: 4.5 "
CSG ID: 4 "
WGT: 10.5/11.6 ppf
GRADE: J-55
EXCESS: 30 %

DEPTH: 8120'

INTERMEDIATE TAIL:

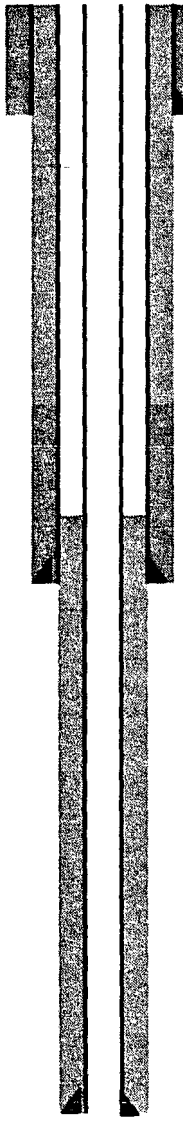
Option 1			Option 2			Option 3		
147 sx	Comp. Strength		**145 sx**	Comp. Strength		**151 sx**	Comp. Strength	
34.4 bbls	3:53	500 psi	34.4 bbls	2:05	50 psi	34.4 bbls	24 hrs	1850 psi
193.1 cuft	8:22	1000 psi	193.1 cuft	4:06	500 psi	193.1 cuft	48 hrs	3411 psi
1.31 ft^3/sx	24 hrs	3170 psi	1.33 ft^3/sx	12 hrs	1250 psi	1.28 ft^3/sx		
13.5 ppg	48 hrs	5399 psi	13.5 ppg	24hrs	1819 psi	13.5 ppg		
5.317 gal/sx			5.52 gal/sx			5.255 gal/sx		
50/50 Poz: Class G Cement			50/50 Poz: Standard Cement			50/50 Poz: Class G Cement		
+ 0.25 lb/sx D029 Cellophane Flakes			+ 2% Bentonite			+ 2% D020 Bentonite		
+ 3% S001 Calcium Chloride			+ 6.0 lb/sx Phenoseal			+ 5.0 lb/sx D024 Gilsonite Extender		
+ 2% D020 Bentonite						+ 2% S001 Calcium Chloride		
+ 1.5 lb/sx D024 Gilsonite Extender						+ 0.1% D046 Antifoamer		
+ 0.1% D046 Antifoamer						+ 0.15% D065 Dispersant		
+ 6 lb/sx Phenoseal						+ 1.0 lb/bbl CemNet		

PRODUCTION:

Option 1			Option 2		
392 sx	Comp. Strength		**389 sx**	Comp. Strength	
100.5 bbls	7 hrs	500 psi	100.5 bbls	9:32	50 psi
564.1 cuft	24 hrs	2100 psi	564.1 cuft	12 hrs	500 psi
1.44 ft^3/sx			1.45 ft^3/sx	13:29	1026 psi
13.0 ppg			13.1 ppg	24 hrs	2300 psi
6.47 gal/sx			6.55 gal/sx		
50/50 Poz: Class G Cement			50/50 Poz: Standard Cement		
+ 0.25 lb/sx D029 Cellophane Flakes			+ 3% Bentonite		
+ 3% D020 Bentonite			+ 0.2% CFR-3 Friction Reducer		
+ 1.0 lb/sx D024 Gilsonite Extender			+ 0.1% HR-5 Retarder		
+ 0.25% D167 Fluid Loss			+ 0.8% Halad-9 Fluid Loss Additive		
+ 0.25% D065 Dispersant			+ 3.5 lb/sx Phenoseal		
+ 0.1% D800 Retarder					
+ 0.1% D046 Antifoamer					
+ 3.5 lb/sx Phenoseal					

M 3- 1/5/06

San Juan 29-5 Unit 35M



SURFACE:

HOLE:	12.25	"
CSG OD:	9.625	"
CSG ID:	9.001	"
WGT:	32.3	ppf
GRADE:	H-40	
EXCESS:	125	%
DEPTH:	200	'

INTERMEDIATE LEAD:

HOLE:	8.75	"
CSG OD:	7	"
CSG ID:	6.456	"
WGT:	23/20	ppf
GRADE:	J-55	
EXCESS:	50	%
TAIL:	813.6	'
DEPTH:	4068	'

Option 4			Option 5		
253	**sx**	Comp. Strength	**347**	**sx**	Comp. Strength
129.7	bbls	1:47 50 psi	129.7	bbls	10:56 500 psi
728.0	cuft	12 hrs 350 psi	728.0	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		

INTERMEDIATE TAIL:

HOLE:	6.25	"
CSG OD:	4.5	"
CSG ID:	4	"
WGT:	10.5/11.6	ppf
GRADE:	J-55	
EXCESS:	30	%
DEPTH:	8120	'

PRODUCTION:

If the 9 5/8" surface casing is preset drilled (MOTE) will cement w/75 sx Type I-II cement w/20% Flyash mixed @ 1.61 cf/sx. Will bring cement to surface. Wait on cement for 24 hours for pre-set hole before pressure testing or drilling out. If H&P rig is used to drill the well will use 13 1/2" surface hole then will adjust cement to insure cement reaches surface.

M 3 - 1/5/06

TOPSET FRUITLAND COAL Wells: (topset casing above coal to prepare for cavitation/DO/UR)

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

Centralizer Program:
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints
Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints
Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale
Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

CASE & FRAC FRUITLAND COAL Wells: (casing set below coal to prepare for frac completion)

Drilling Mud Program:
Surface: spud mud
Production: fresh water mud with bentonite and polymer as needed

Centralizer Program:
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints
Production: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints
Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale

MESA VERDE Wells:

Drilling Mud Program:
Surface: spud mud
Intermediate: fresh water mud with bentonite and polymer as needed
Below Intermediate: air/mist drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints
Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints
Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale
Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

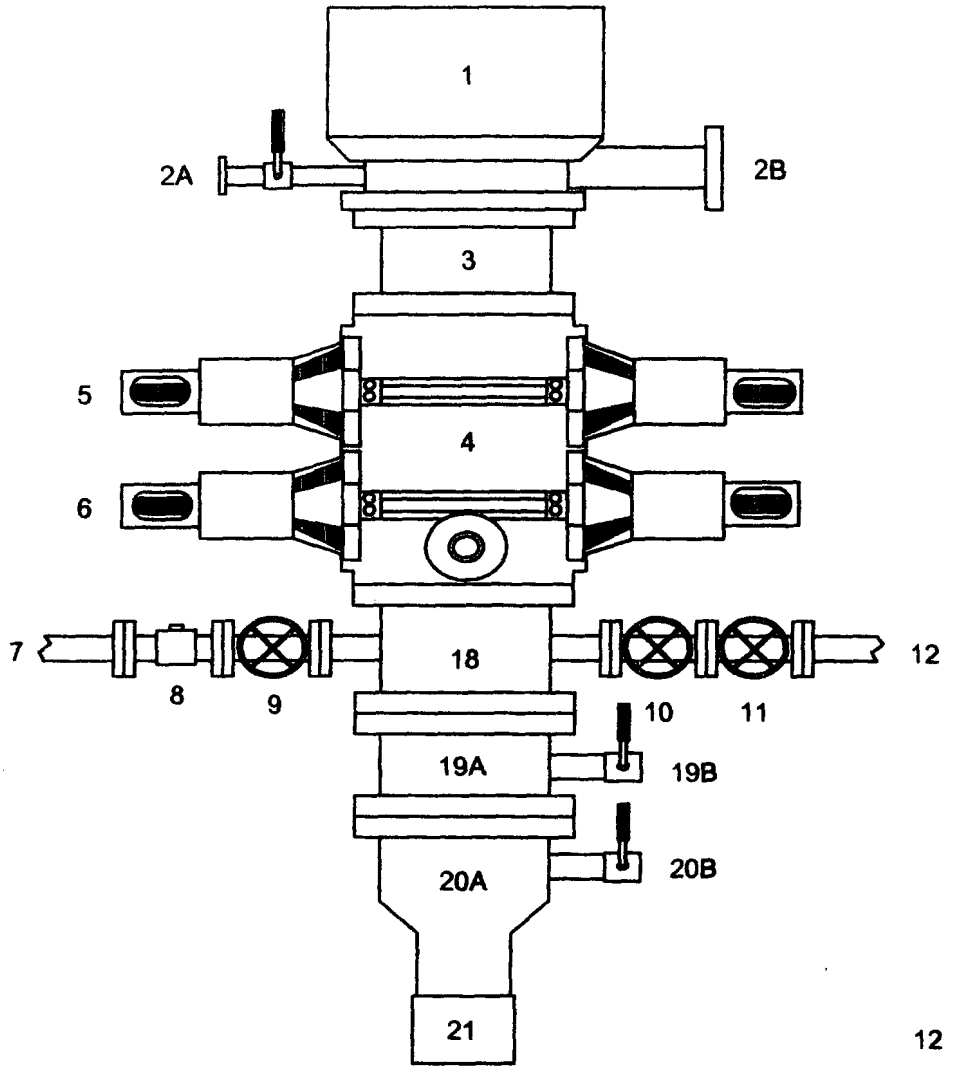
DAKOTA Wells:

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

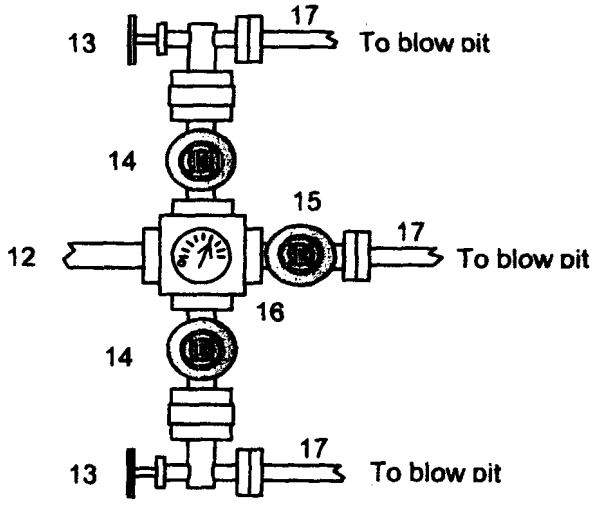
Centralizer Program:
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints
Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints
Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale
Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

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



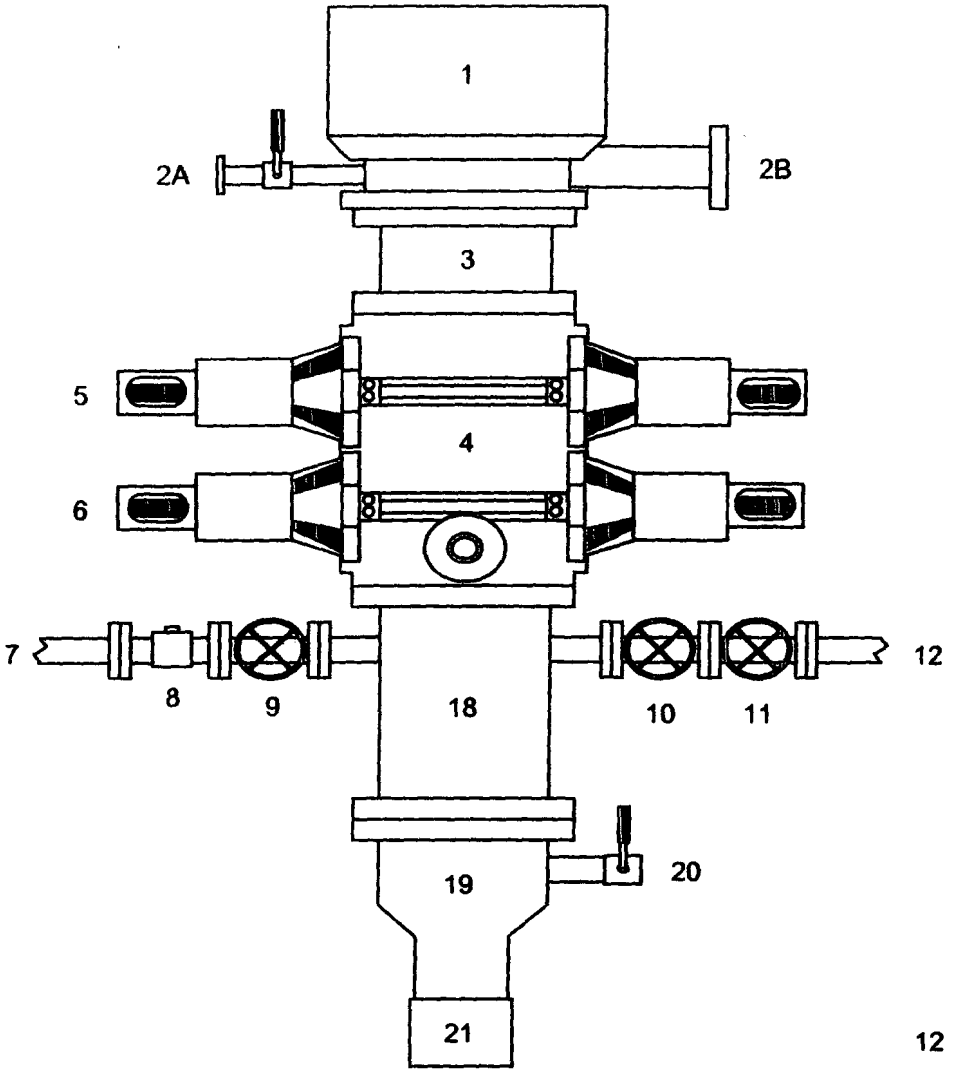
After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200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

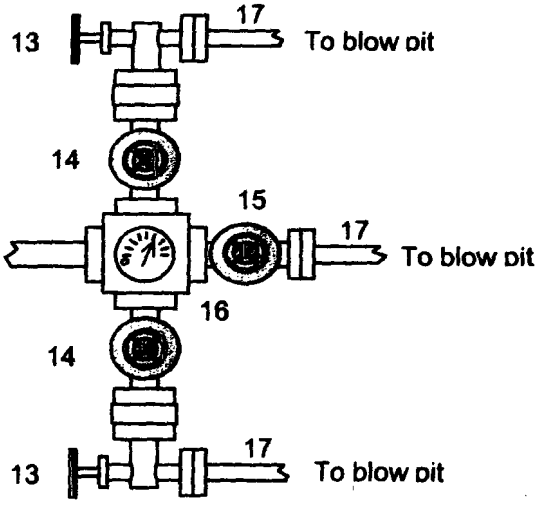
Revision Date: September 1, 2004

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. \ 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 ɜst) 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 ıinutes** (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory ɔquirements 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.

ı addition to the equipment in the above diagram the following equipment will comprise the BOP system:
Upper Kelly cock Valve with handle
Stab-in TIW valve for all drillstrings in use

Revision Date: September 1, 2004