UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a.	Type of Work DRILL	5. Lease Number NMSF-078995 Unit Reporting Number NMNM-78421B-DK NMNM-78421A-MV
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 #44F
4.	Location of Well Unit A (NENE), 780' FNL & 365' FEL, Latitude 36° 52.5388 N Longitude 107° 28.6890 W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) A Sec. 29, T31N, R06W API # 30-039- 30090
14.	Distance in Miles from Nearest Town 48 miles - Blanco PO	12. County Rio Arriba 13. State NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 365'	
16.	Acres in Lease	17. Acres Assigned to Well DK & MV - 320 - (E/2)
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1777'	
19.	Proposed Depth 8105'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6458' GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Rhonda Rogers (Regulatory Assistant)	10-23-06 Date

RCVD NOV29'06
OIL CONS. DIV.
DIST. 3

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 11/27/06

Archaeological Report attached
Threatened and Endangered Species Report attached
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3 HOLD C104 FOR NSL in MV
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".

NMOCD 11/30/06

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
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

2006 OCT 25 PM 3 58

Form C-102
Revised October 12, 2005

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	²Pool Code	³Pool Name
30-039- 30090	72319/71599	Blanco Mesaverde / Basin Dakota

⁴Property Code	⁵Property Name	⁶Well Number
31328	SAN JUAN 31-6 UNIT	44F

⁷OGRID No.	⁸Operator Name	⁹Elevation
217817	CONOCOPHILLIPS COMPANY	6458'

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
A	29	31-N	6-W		780'	NORTH	365'	EAST	RIO ARRIBA

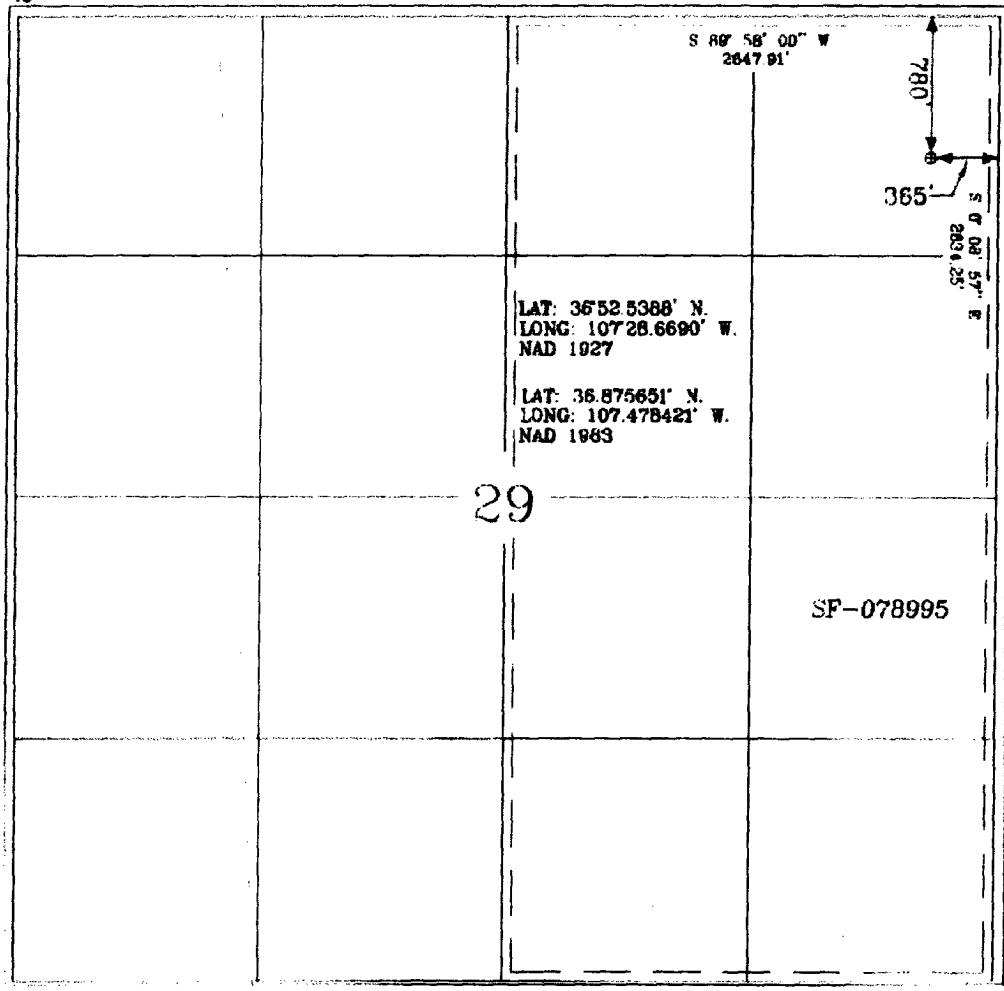
¹¹ Bottom Hole Location If Different From Surface

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

¹²Dedicated Acres	¹³Joint or Infill	¹⁴Consolidation Code	¹⁵Order No.
320 E/2 MV/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

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Rhonda Rogers/ Regulatory Assistant
Printed Name

10-23-06

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

Signature and Seal of Professional Surveyor:

NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

Certificate Number 15703

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- 30090

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No. NMSF-078995

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: #44F

2. Name of Operator: *ConocoPhillips*

9. OGRID Number: 217817

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

10. Pool name or Wildcat: Basin Dakota/Blanco MV

4. Well Location
Unit Letter A 780' feet from the North line and 365' feet from the East line
Section 29 Township 31N Rng 06W NMPM County Rio Arriba

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 6458'

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 >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.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

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 _____ TITLE Regulatory Assistant DATE 9/7/2006

Type or print name Rhonda Rogers E-mail address: rrogers@br-inc.com Telephone No. 505-599-4018

For State Use Only

APPPROVED BY _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. ☒ DATE NOV 30 2006

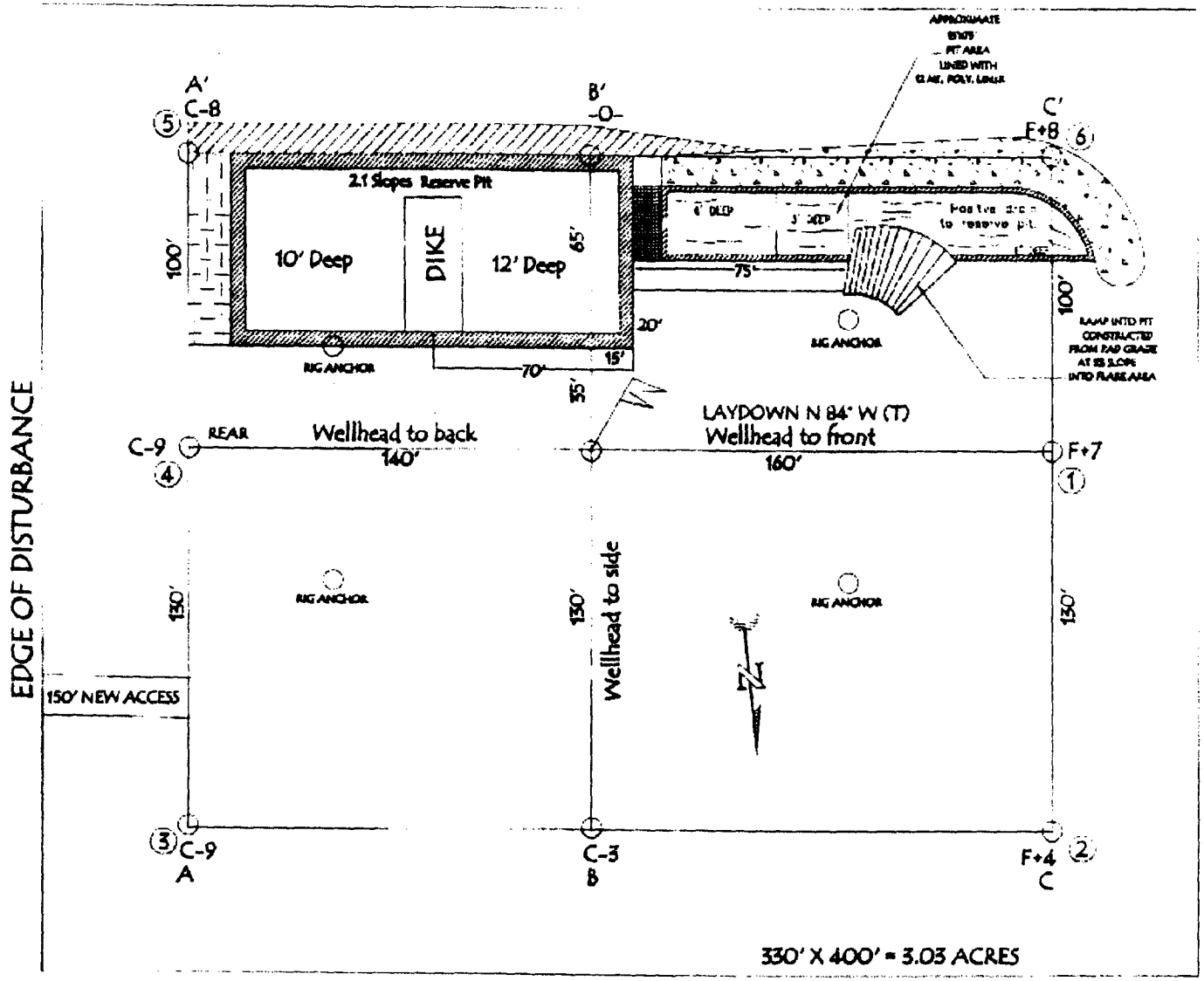
Conditions of Approval (if any):

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT #44F, 780' FNL & 365' FEL

SECTION 29, T-31- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM

GROUND ELEVATION: 6458', DATE: AUGUST 17, 2006



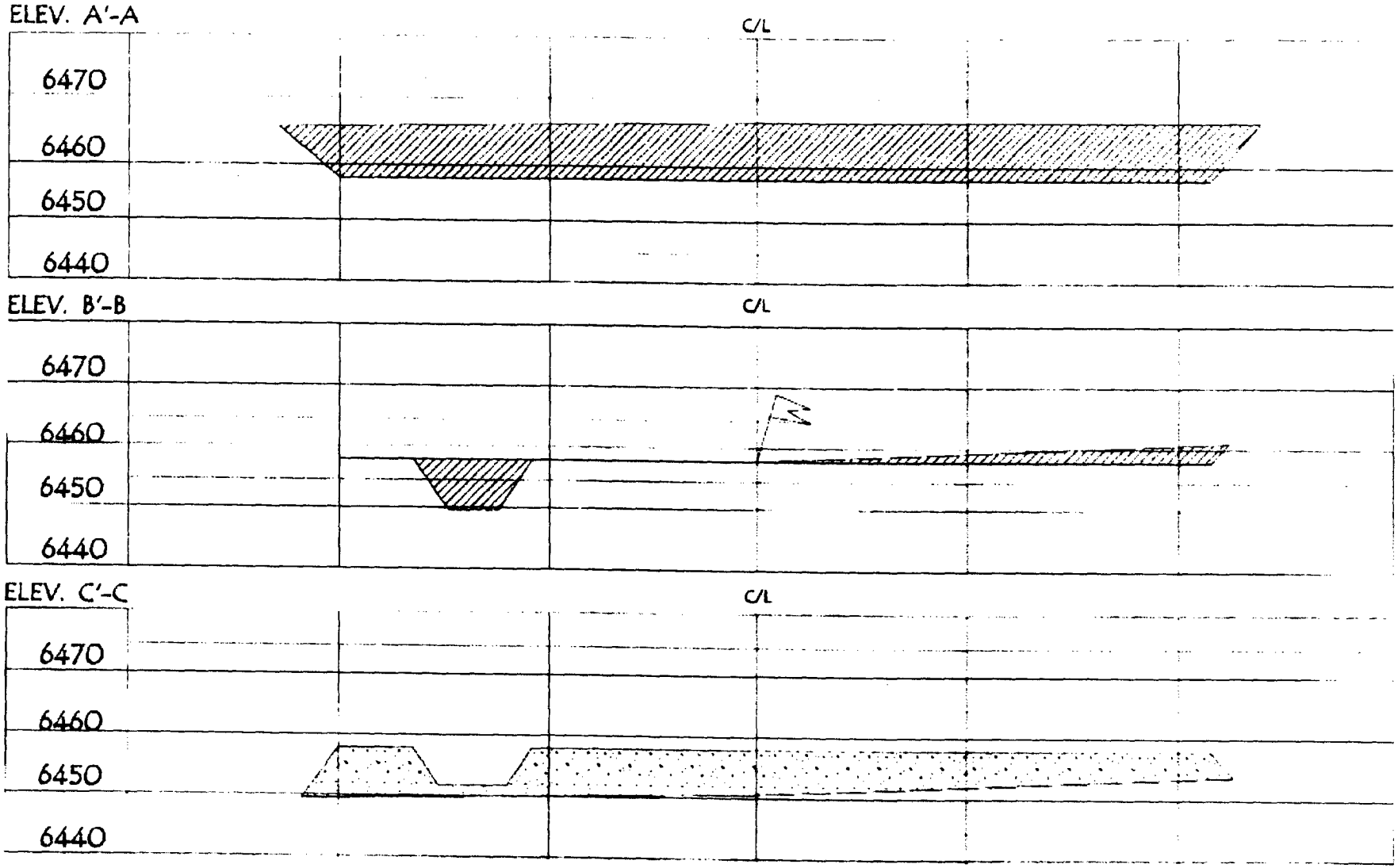
RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LATITUDE: 36° 52.5388'N LONGITUDE: 107° 28.6690'W NAD27

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT 44F, 780' FNL & 365' FEL
SECTION 29, T-31- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM
GROUND ELEVATION: 6458', DATE: AUGUST 17, 2006



NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

ConocoPhillips

San Juan Business Unit

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 44F

Lease:	AFE #: WAN.CNV.7209			AFE $:
Field Name: 31-6	Rig: UNSCHEDULED 31-6	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: Prabowo, Wahyu	Phone: 832-486-2275	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: 36.875679	Longitude: -107.478292	X: 0.00	Y: 0.00	Section: 29	Range: 6W
Footage X: 460 FEL	Footage Y: 700 FNL	Elevation: 6454 (FT)	Township: 31N		
Tolerance:					
Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:		

Formation Data: Assume KB = 6470 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
						12 1/4" based on proposed cement volume
Surface Casing	216	6254	☐			~~13-1/2~~ hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	1445	5025	☐			13 1/2" is acceptable depending on rig availability.
OJAM	2430	4040	☐			Possible water flows.
KRLD	2630	3840	☐			
FRLD	3080	3390	☐			Possible gas.
PCCF	3430	3040	☐			
LEWS	3630	2840	☐			
Intermediate Casing	3730	2740	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CLFH	5425	1045	☐			Gas; possibly wet
MENF	5465	1005	☐			Gas.
PTLK	5720	750	☐			Gas.
GLLP	6970	-500	☐			Gas. Possibly wet.
GRHN	7755	-1285	☐			Gas possible, highly fractured
CBBO	7920	-1450	☐			Gas. Possibly wet.
TOTAL DEPTH DK	8105	-1635	☐			6-1/4" hole, 4-1/2" 11.6#/ft, N-80 LTC csg cemented to 100' above 7" shoe.

Reference Wells:

Reference Type	Well Name	Comments

Mn C. Rig

Printed on: 9/8/2006 8:28:45 AM

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 44F

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:

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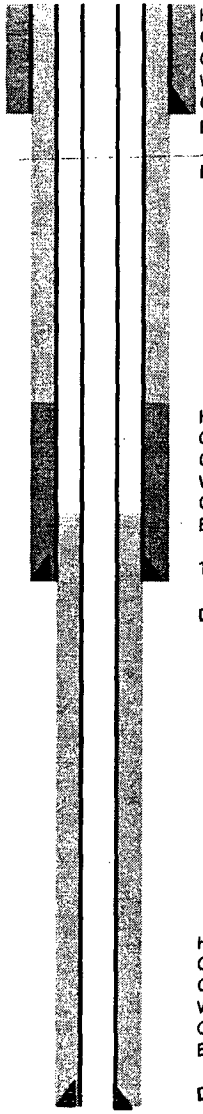
San Juan 31-6 #44F

APD Cement Calculations



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

DEPTH: 216'

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

TAIL: 746'

DEPTH: 3730'

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

DEPTH: 8105'

SURFACE:

Option 1

136 sx	Comp. Strength	
28.4 bbls	6 hrs	250 psi
159.6 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

132 sx	Comp. Strength	
28.4 bbls	6 hrs	250 psi
159.6 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

60 sx	Comp. Strength	
17.3 bbls	8 hrs	475 psi
96.9 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

INTERMEDIATE LEAD:

Option 1

396 sx	Comp. Strength	
192.1 bbls	9 hrs	300 psi
1078.4 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

415 sx	Comp. Strength	
192.1 bbls	1:47 hrs	50 psi
1078.4 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

410 sx	Comp. Strength	
192.1 bbls	3 hrs	100 psi
1078.4 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	
51.7 bbls	3:53	500 psi
290.0 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	
51.7 bbls	2:05	50 psi
290.0 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

227 sx	Comp. Strength	
51.7 bbls	24 hrs	1850 psi
290.0 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

PRODUCTION:

Option 1

484 sx	Comp. Strength	
124.1 bbls	7 hrs	500 psi
697.0 cuft	24 hrs	2100 psi
1.44 ft^3/sx		
13.0 ppg		
6.47 gal/sx		

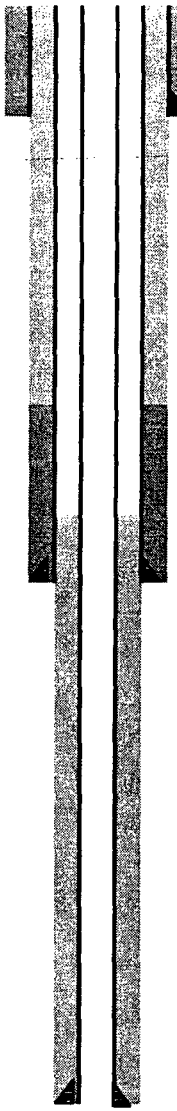
50/50 Poz: Class G Cement
+ 0.25 lb/sx D029 Cellophane Flakes
+ 3% D020 Bentonite
+ 1.0 lb/sx D024 Gilsonite Extender
+ 0.25% D167 Fluid Loss
+ 0.25% D065 Dispersant
+ 0.1% D800 Retarder
+ 0.1% D046 Antifoamer
+ 3.5 lb/sx Phenoseal

Option 2

481 sx	Comp. Strength	
124.1 bbls	9:32	50 psi
697.0 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 #44F



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

DEPTH: 216'

SURFACE:

INTERMEDIATE LEAD:

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

TAIL: 746'

DEPTH: 3730'

Option 4				Option 5		
374 sx		Comp. Strength		514 sx		Comp. Strength
192.1 bbls		1:47	50 psi	192.1 bbls		10:56 500 psi
1078.4 cuft		12 hrs	350 psi	1078.4 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:

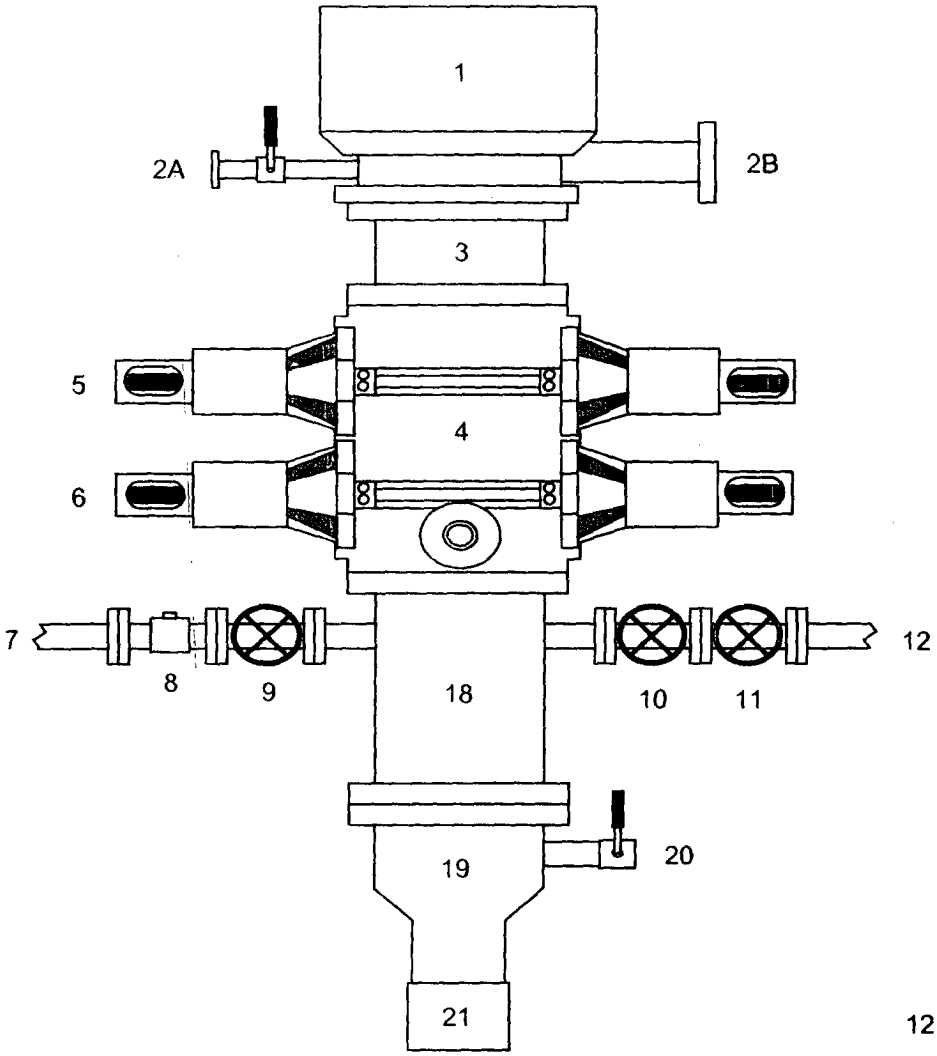
HOLE: 6.25 "
CSG OD: 4.5 "
CSG ID: 4 "
WGT: 11.6 ppf
GRADE: N-80
EXCESS: 50 %

DEPTH: 8105'

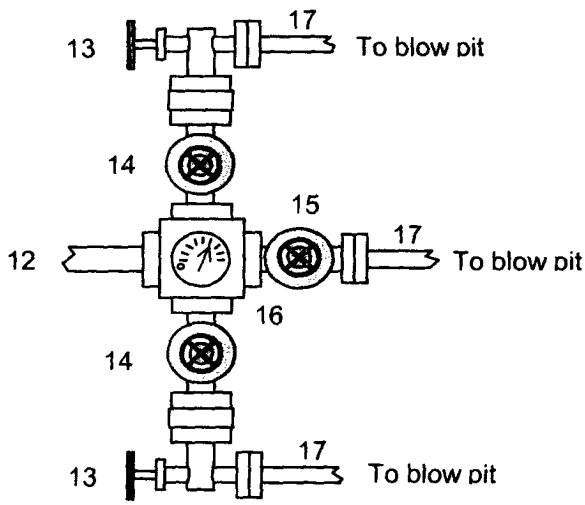
PRODUCTION:

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.

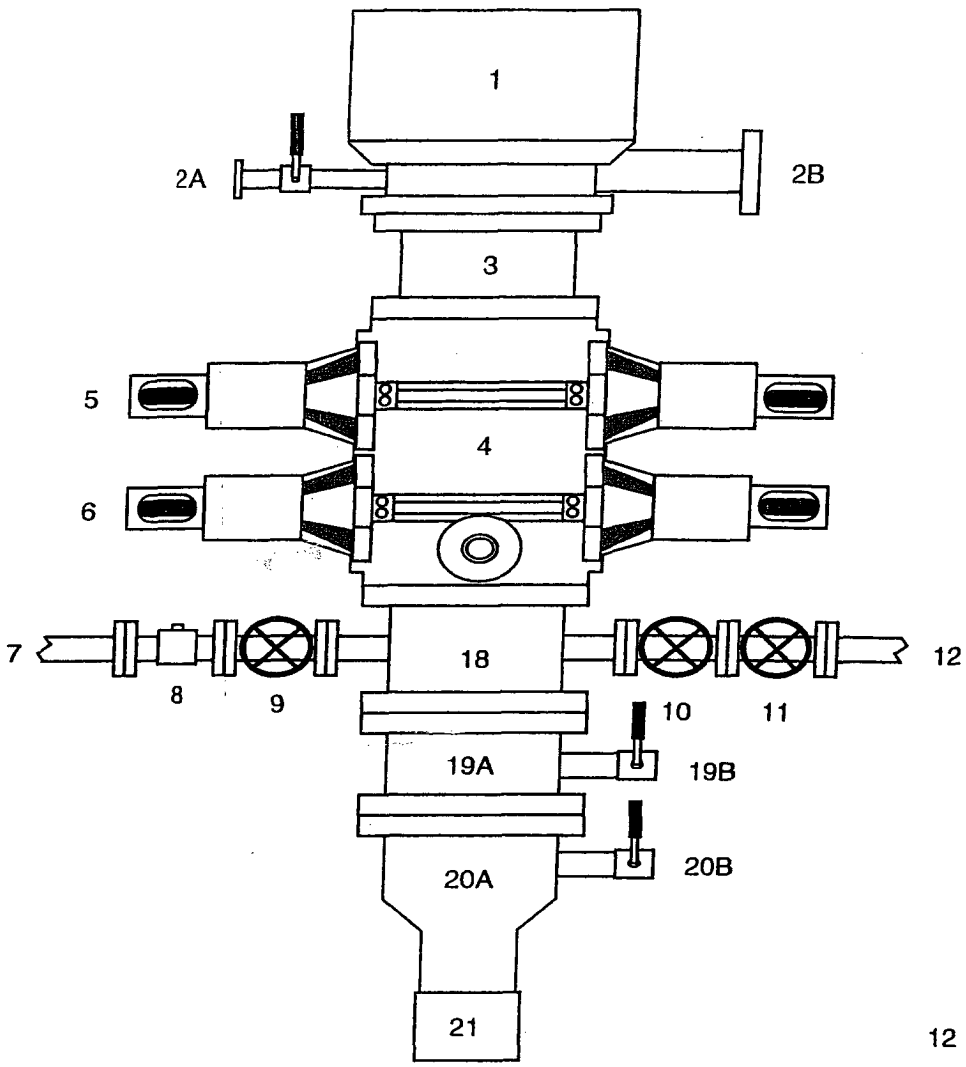
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

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

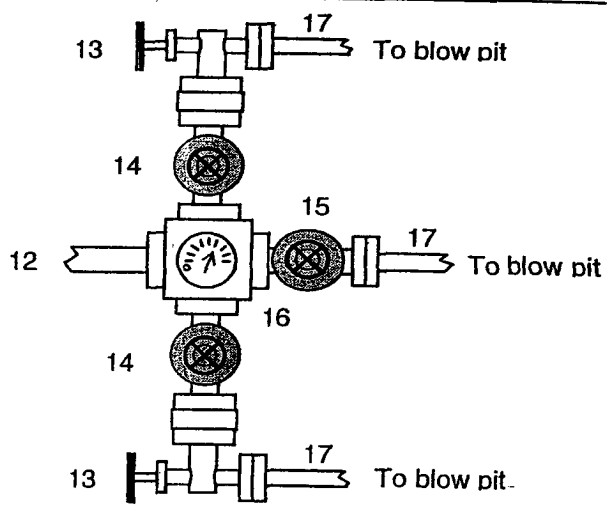
Revision Date: September 1, 2004

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to 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