Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 21 2004
Bureau of Land Management
Farmington Field Office

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. NM-03471
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone	6. If Indian, Allottee or Tribe Name
2. Name of Operator CONOCOPHILLIPS COMPANY Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com	7. If Unit or CA Agreement, Name and No.
3a. Address 4001 PENBROOK, SUITE 346 ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SENW 1800FNL 2300FWL At proposed prod. zone	8. Lease Name and Well No. SAN JUAN 29-6 #58C
	9. API Well No. 30-039-29231
	10. Field and Pool, or Exploratory BLANCO MESAVERDE
	11. Sec., T., R., M., or Blk. and Survey or Area Sec 28 T29N R6W Mer NMP
14. Distance in miles and direction from nearest town or post office*	12. County or Parish RIO ARRIBA / 13. State NM
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 17. Spacing Unit dedicated to this well 320 W/2
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5778 MD 20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6365 GL	22. Approximate date work will start 23. Estimated duration

NOV 2004 RECEIVED OIL CONS. DIV. DIST. 3

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall 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 shall 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 authorized officer.

25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	VICKI WESTBY	09/17/2004

Title: AGENT

Approved by (Signature)	Name (Printed/Typed)	Date
/s/ Markewicz		11/17/04
Title: AFM	Office: FFO	

Application approval does not warrant or certify the applicant holds legal or equitable 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.

Additional Operator Remarks (see next page)

Electronic Submission #36310 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Farmington

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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

RECEIVED
SEP 21 2004
Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-039-2931	72319	BLANCO MESAVERDE

4 Property Code	5 Property Name	6 Well Number
31326	SAN JUAN 29-6 UNIT	58C

7 OGRID No.	8 Operator Name	9 Elevation
217817	CONOCOPHILLIPS COMPANY	6365'

10 Surface Location

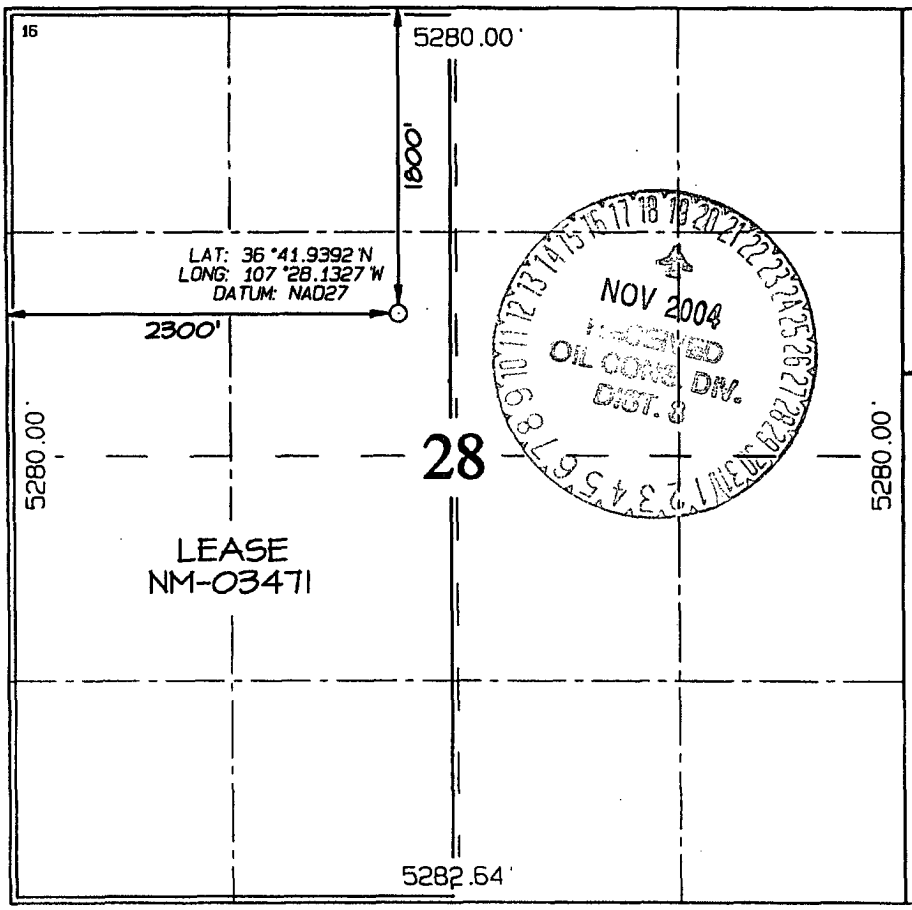
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	28	29N	6W		1800	NORTH	2300	WEST	RIO ARRIBA

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.
320.0 Acres - W/2			

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

Vicki Westby (Aj.)
Signature

Vicki R. Westby
Printed Name

Sr. Analyst
Title

9/13/04
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: JUNE 7, 2004

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., flobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 882 I 0
District III
I 000 Rio Brazos Rd., Aztec, NM 8741 0
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

Fonn C-103
May 27, 2004

WELL API NO.

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

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 29-6 UNIT

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

8. Well Number 58C

2. Name of Operator
ConocoPhillips Company

9. OGRID Number
217817

3. Address of Operator
4001 Penbrook, Odessa, TX 79762

I 0. Pool name or Wildcat
BLANCO MESAVERDE

4. Well Location
Unit Letter F 1800 feet from the NORTH line and 2300 feet from the WEST line
Section 28 Township 29N Range 6W NMPM County RIO ARRIBA

I I. Elevation (Show *whether DR, RKB, RT, GR, etc)*
6365 GL

Pit r Btl n% aj nlv I ink Applikilion ☐ ir Closure ☐

Pit type DRILL Depth to Groundwater ~~5 Mile~~ 50 - 100' Distance from nearest fresh water well ~~50-100'~~ > 1,000' Distance from nearest surface water 300'

Pit Liner Thickness: 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.	☐	PANDA	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			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 I 1 03. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

ConocoPhillips Generic Pit Plan is on files at the NMOCD in Aztec, NM. 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. The solids left after the water has been disposed of will be sampled and NMOCD approval will be obtained prior to closure of this pit.

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 Vicki Westby TITLE Sr. Analyst DATE 9/17/04

Type or print name E-mail address: Telephone No.

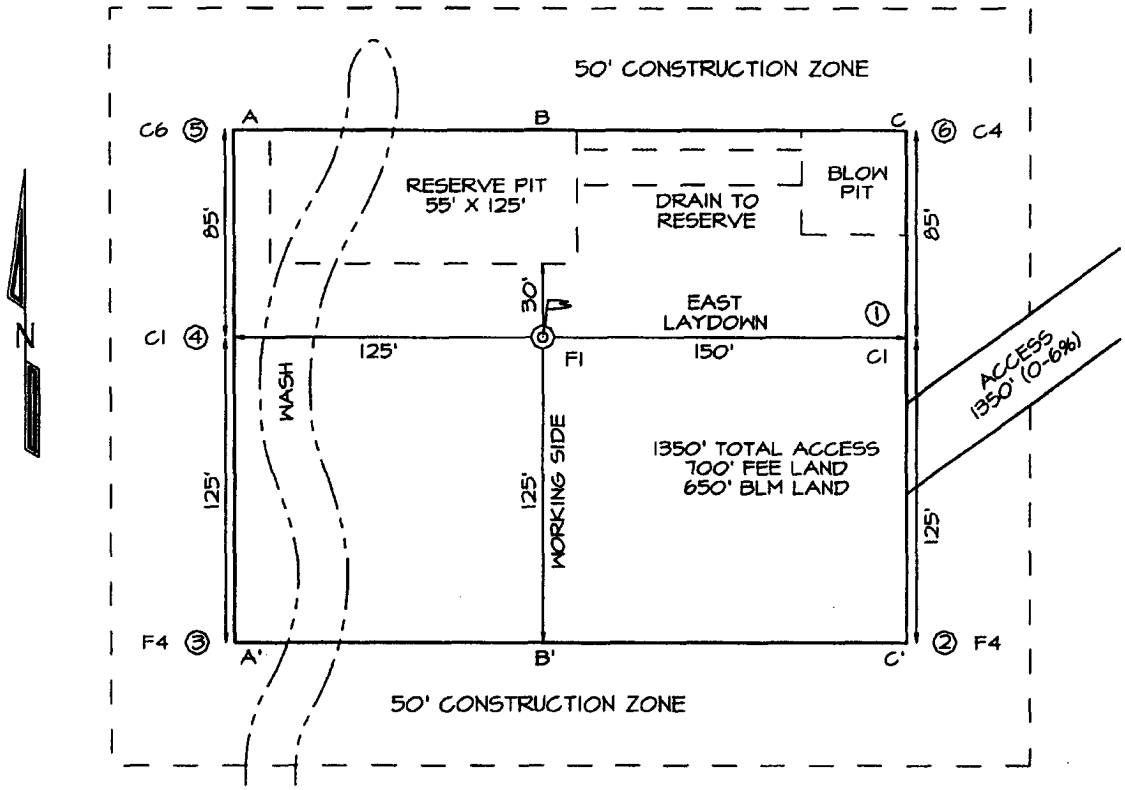
For State Use Only

APPROVED BY: TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE NOV 19 2004

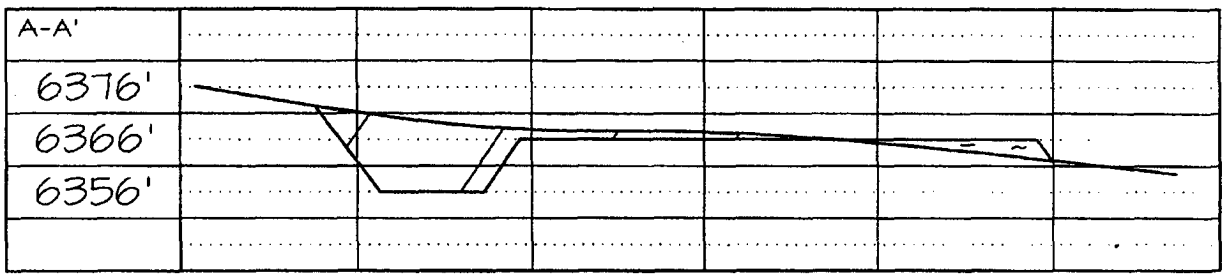
Conditions of Approval (if any):

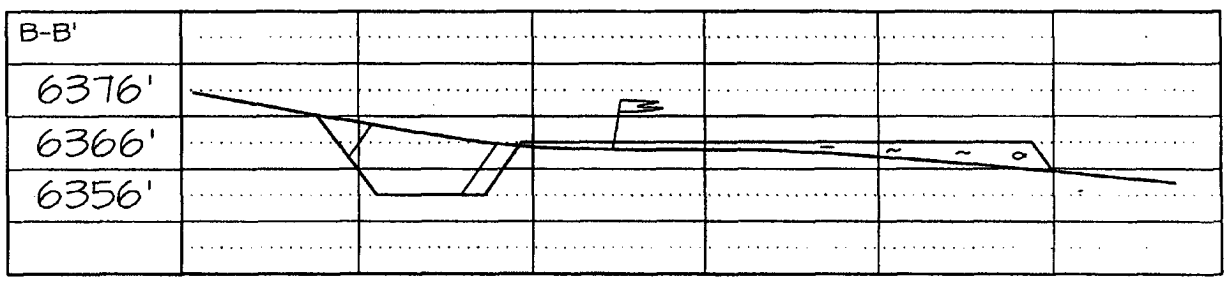
CONOCOPHILLIPS COMPANY SAN JUAN 29-6 UNIT #58C
1800' FNL & 2300' FWL, SECTION 28, T29N, R6W, NMPM
RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6365'

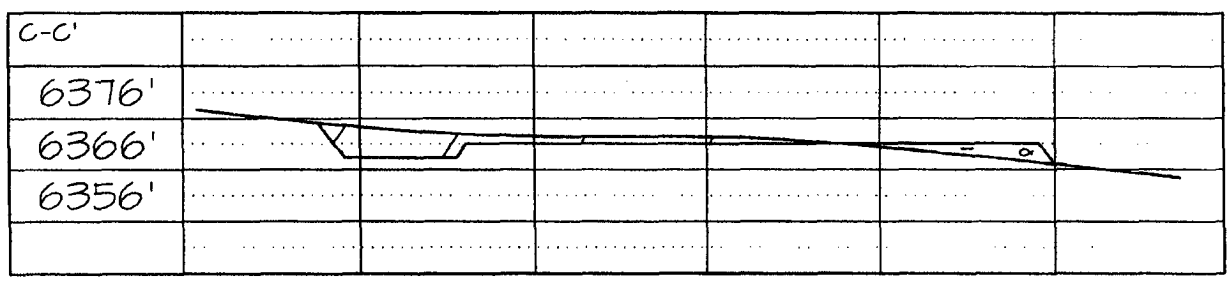
LATITUDE: 36.69899° N
LONGITUDE: 107.46888° W
DATUM: NAD1927



PLAT NOTE:
SURFACE OWNER Andrea T. Lucero







FILENAME: 29628FT	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 29-6 58C

Lease:	AFE #: WAN.CNV.4139			AFE $:
Field Name: hPHILLIPS 29-6	Rig: 320-2419	State: NM	County: RIO ARRIBA	API #:
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

Latitude: 36.70	Longitude: -107.47	X:	Y:	Section: 28	Range: 6W
Footage X: 2300 FWL	Footage Y: 1800 FNL	Elevation: (FT)	Township: 29N		
Tolerance:					

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

Formation Data: Assume KB = 6378 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	213	6165	☐			Severe Lost Circulation is possible. 12 1/4" Hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	1118	5260	☐			
OJAM	2368	4010	☐			Possible water flows.
KRLD	2568	3810	☐			
FRLD	2913	3465	☐			Possible gas.
PCCF	3263	3115	☐			
LEWS	3463	2915	☐			
Intermediate Casing	3563	2815	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4228	2150	☐			Gas; possibly wet
CLFH	5023	1355	☐	1300		Gas; possibly wet
MENF	5113	1265	☐			Gas.
PTLK	5428	950	☐			Gas.
MNCS	5678	700	☐			
Total Depth	5778	600	☐			6-1/4" Hole. 4-1/2", 10.5 ppf, J-55, 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

Logging Program:

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

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

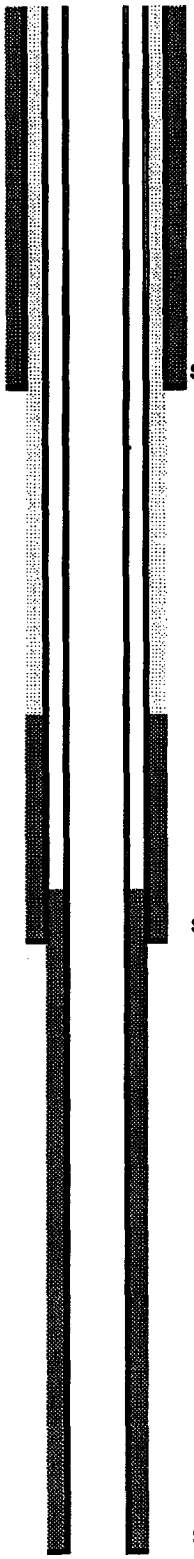
Additional Information:

Comments: General/Work Description -

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

Printed on: 9/17/2004 7:45:58 AM

San Juan 29-6 # 58C



SURFACE CASING :

Drill Bit Diameter	12.25	"
Casing Outside Diameter	9.625	" Casing Inside Diam. 9.063 "
Casing Weight	32.3	ppf
Casing Grade	H-40	
Shoe Depth	230	'
Cement Yield	1.18	cuft/sk
Excess Cement	125	%
Cement Required	147	**sx**

SHOE 230 ', 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	3563	'
Lead Cement Yield	2.33	cuft/sk
Lead Cement Excess	150	%
Tail Cement Length	712.6	'
Tail Cement Yield	1.33	cuft/sk
Tail Cement Excess	150	%
Lead Cement Required	355	**sx**
Tail Cement Required	209	**sx**

SHOE 3563 ', 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	3363	' 200' inside intermediate casing
Shoe Depth	5778	'
Cement Yield	1.25	cuft/sk
Cement Excess	50	%
Cement Required	251	**sx**

SHOE 5778 ', 4.5 ", 10.5 ppf, J-55 LTC

San Juan 29-6 # 58C			
	Surf. Csg	Int. Csg	Prod. Csg
OD	9.625	7	4.5
ID	9.001	6.456	4.000
Depth	230	3563	5778
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	125	150	50
Lead Yield		2.68	
Tail Yield	1.20	1.39	1.45
Ft of Tail Slurry	230	712.6	2415
Top of Tail Slurry	0	2850.4	3363
Top of Lead Slurry	N/A	0	N/A
Mud Wt (ppg)	8.9	9.0	air drl
Mud Type	WBM	WBM	air drl

Surface Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	230	0.055804	2.25	28.9	162.1	134.0
Shoe Track Volume	40	0.078735	1	3.1	17.7	13.3
Total				32.0	179.8	147.3

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Lead Open Hole Annulus	2620.4	0.026786	2.5	175.5	985.2	342.1
Lead Cased Hole Annulus	220	0.031116	1	6.8	38.4	13.3
Lead Total				182.3	1023.6	355.4
Tail Open Hole Annulus	712.6	0.026786	2.5	47.7	267.9	201.4
Tail Shoe Track Volume	42	0.040505	1	1.7	9.6	7.2
Tail Total				49.4	277.5	208.6

Production Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	2215	0.018282	1.5	60.7	341.0	235.2
Cased Hole Annulus	200	0.020826	1	4.2	23.4	16.1
Total				64.9	364.4	251.3

San Juan 29-6 # 58C		
9-5/8 Surface Casing		
Cement Recipe	Class C Standard Cement	
	+ 3% Calcium Chloride	
	+0.25 lb/sx Flocele	
Cement Volume	127	sx
Cement Yield	1.21	cuft/sx
Slurry Volume	153.67	cuft
	27.38	bbls
Cement Density	15.6	ppg
Water Required	5.29	gal/sx
Compressive Strength		
Sample cured at 60 deg F for 8 hrs		
4hrs 38 mins	50	psi
9hrs	250	psi

San Juan 29-6 # 58C

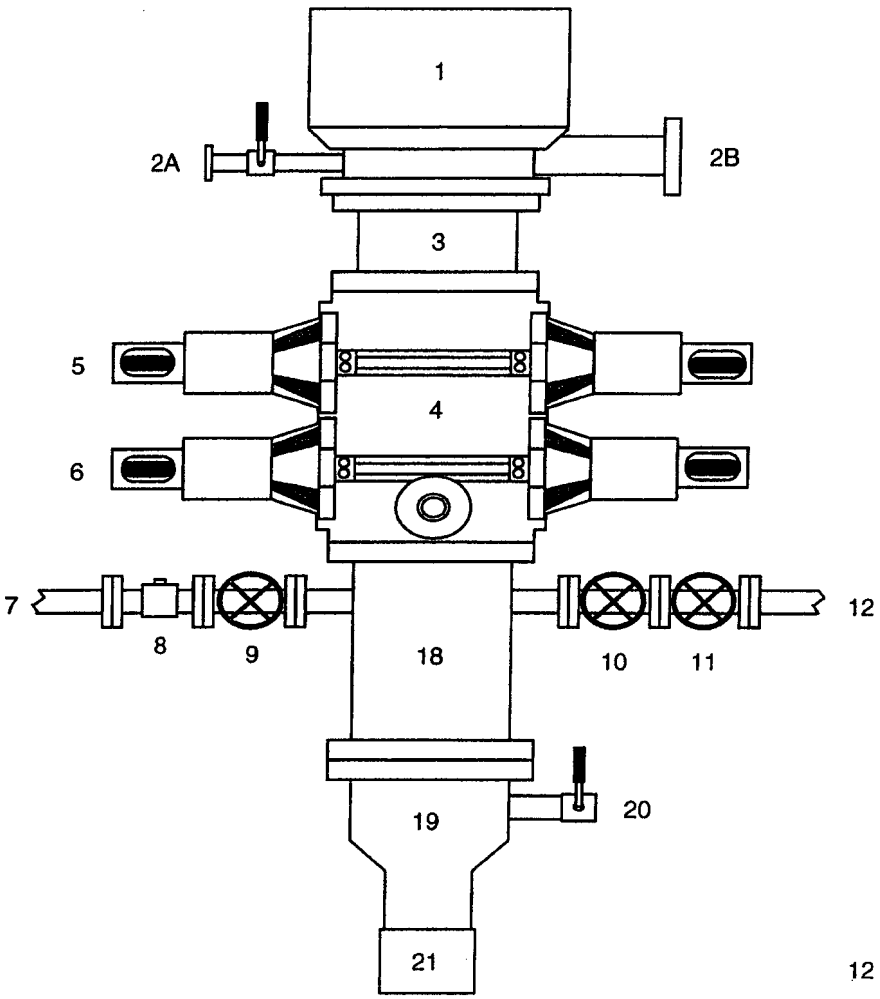
7" Intermediate Casing		
Lead Slurry		
Cement Recipe	Standard Cement	
	+ 3% Econolite (extender)	
	+ 10 lb/sx Pheno Seal	
Cement Required	355	sx
Cement Yield	2.88	cuft/sx
Slurry Volume	1023.6	cuft
	182.3	bbls
Cement Density	11.5	ppg
Water Required	16.91	gal/sx
Compressive Strength		
Sample cured at 130 deg F for 24 hrs		
1 hr 47 min	50	psi
12 hr	350	psi
24 hr	450	psi

7" Intermediate Casing		
Tail Slurry		
Cement Slurry	50 / 50 POZ:Standard Cement	
	+ 2% Bentonite	
	+ 6 lb/sx Pheno Seal	
Cement Required	209	sx
Cement Yield	1.33	cuft/sx
Slurry Volume	277.5	cuft
	49.4	bbls
Cement Density	13.5	ppg
Water Required	5.52	gal/sx
Compressive Strength		
Sample cured at 130 deg F for 24 hrs		
2 hr 05 min	50	psi
4 hr 06 min	500	psi
12 hr	1250	psi
24 hr	1819	psi

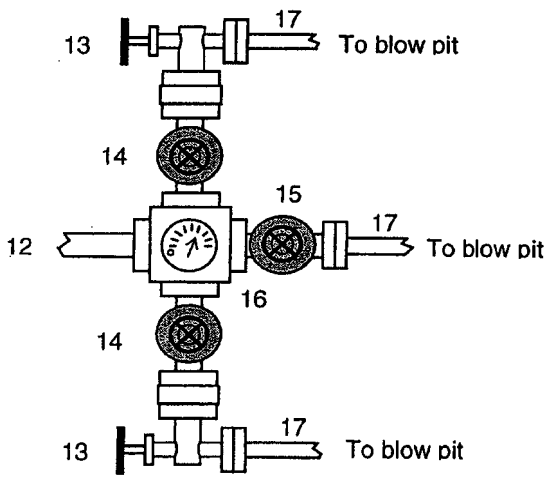
San Juan 29-6 # 58C		
4 1/2" Production Casing		
Cement Recipe	50 / 50 POZ Standard Cement	
	+ 3% Bentonite	
	+ 3.5 lb/sx PhenoSeal	
	+ 0.2% CFR-3 Friction Reducer	
	+ 0.1% HR-5 Retarder	
	+ 0.8% Halad-9 Fluid Loss Additive	
Cement Quantity	261	sx
Cement Yield	1.45	cuft/sx
Cement Volume	364.4	cuft
	64.9	
Cement Density	13.1	ppg
Water Required	6.47	gal/sx
Compressive Strength		
Sample cured at 200 deg F for 23 hrs		
9 hr 50 min	50	psi
13 hr 45 min	500	psi
16 hr	1500	psi
23 hr	2525	psi

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



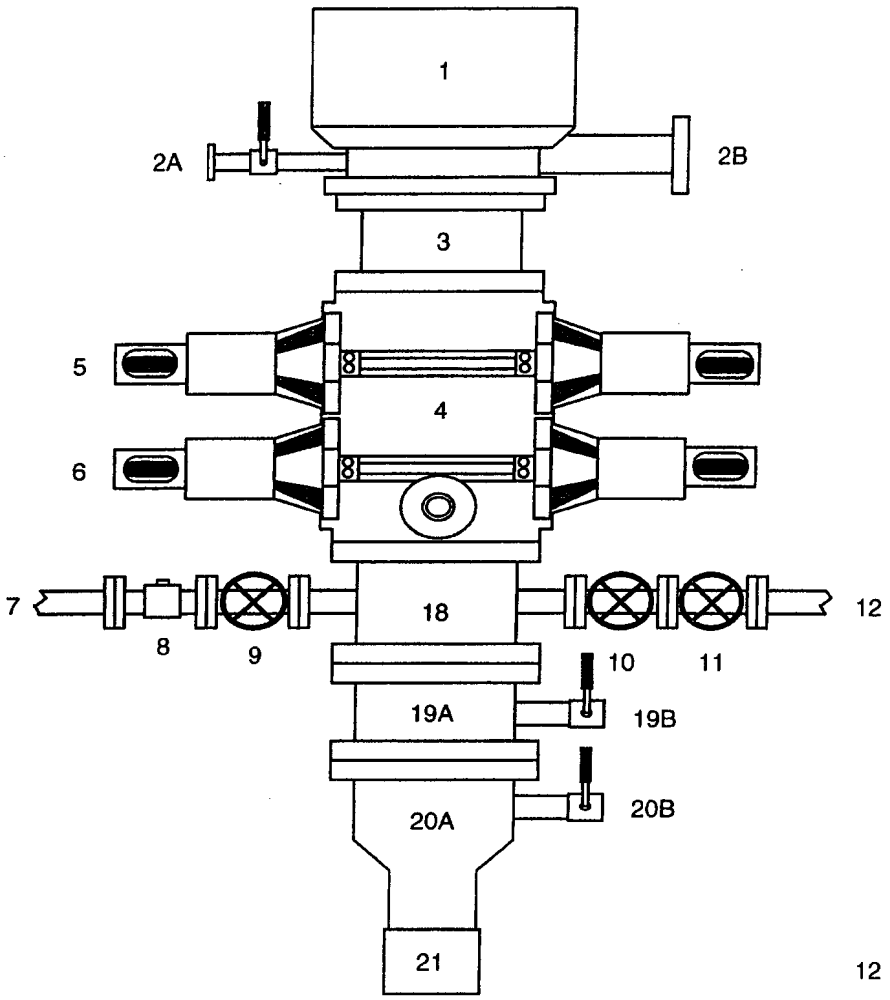
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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

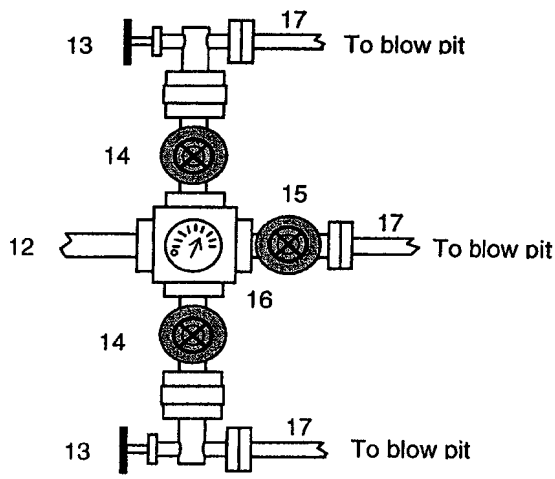
Revision Date: September 1, 2004

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

Revision Date: September 1, 2004

Property : San Juan 29-6 **Well #:** 58C

Surface Location:

Unit: F **Section:** 28 **Township:** 26N **Range:** 6W

County: Rio Arriba **State:** New Mexico

Footage: 1800 **from the** North **line,** 2308 **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.