Form 3160-3 (August 1999) FORM APPROVED OMB No. 1004-0136 Expires November 30, 200

	UNITED STATES DEPARTMENT OF THE INTERIOR					
= =	BUREAU OF LAND MANAGEMENT					
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Nar	ne			
la. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Nam	e and No.			
1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ O	Other Single Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 29-6 UNIT 59B				
2. Name of Operator CONOCOPHILLIPS COMPANY	t: VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com	9. API Well No. 30 - 039 - 2941	ر م			
3a. Address 4001 PENBROOK ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352	10. Field and Pool, or Exploratory BLANCO MESAVERDE				
4. Location of Well (Report location clearly and in accord	dance with any State requirements.*)	11. Sec., T., R., M., or Blk. and S	urvey or Area			
At surface NWNE 660FNL 2250FEL		Sec 5 T29N R6W Mer N	MP			
At proposed prod. zone NWNE 660FNL 2250FEL						
14. Distance in miles and direction from nearest town or pos	st 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			
rease time, it. (Also to heatest drig, time time, it any)	1278.60	318.6 E/2				
18. Distance from proposed location to nearest well, drilling	, 19. Proposed Depth	20. BLM/BIA Bond No. on file				
completed, applied for, on this lease, ft.	5927 MD					
21. Elevations (Show whether DF, KB, RT, GL, etc. 6489 GL	22. Approximate date work will start	23. Estimated duration	····			
	24. Attachments					
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy SUPO shall be filed with the appropriate Forest Service Company of the Company of t	stem Lands, the Item 20 above). 5. Operator certification	ons unless covered by an existing bon	,			
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY Ph: 915.368.1352	Dat Oz	te 2/16/2005			
Title AGENT						
Approved by (Signature)	Name (Printed/Typed) Warne Townsen	Dat	9/9/05			
Title Acting Arm	Office FFO					
Application approval does not warrant or certify the applicant operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights in the subject le	ease which would entitle the applicant	t to conduct			
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	o make to any department or agency of	of the United			

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 #54150 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

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

District I PO 80x 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

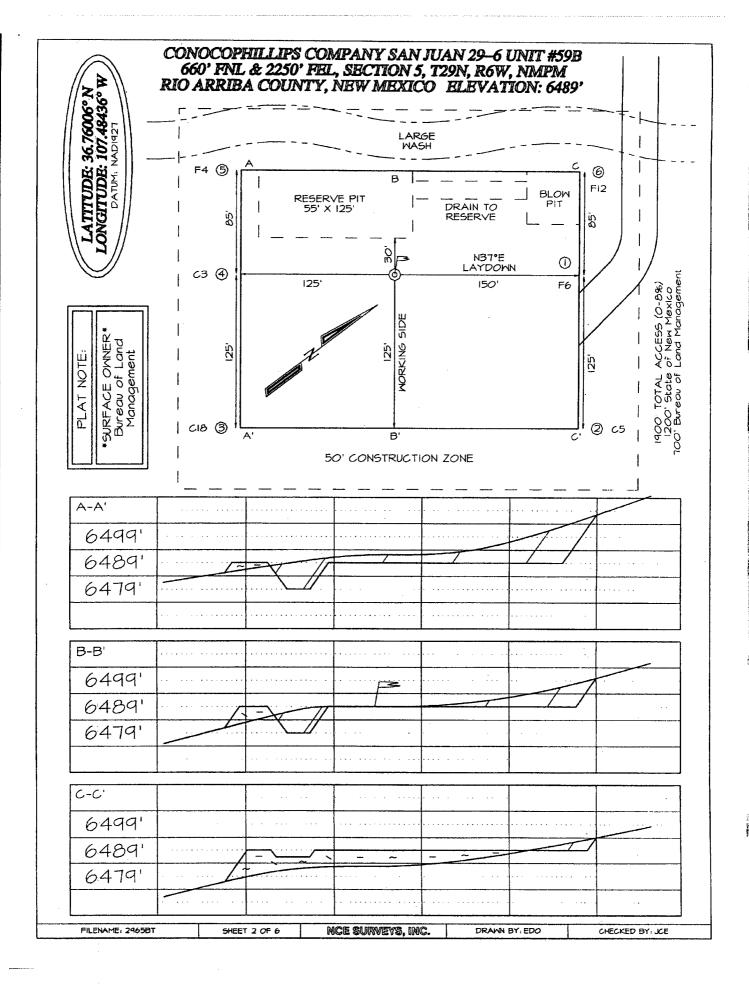
State of New Mexico Energy, Minerals & Natural Resources Department

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

o Box 2088,	Santa Fe,	NM 87504-		I DCAT	TONI ANIO A		T (TON DIA	Τ	
'AP	I Number	T	*P001	Code	TON AND A	CREAGE DED	³Po	ol Name		
			72	319			ANCU	MESAVER		
'Property 3132	į.				*Property SAN JUAN 2	•			- Wi	ell Number 59B
'0GRID 1				ــــــــــــــــــــــــــــــــــــــ	*Operator	Name IPS COMPANY			*6	levation 6489
					¹⁰ Surface					U4U3
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Fee	t from the	East/West line	County
В	5	29N	. 6W		660	NORTH	a	2250	EAST	RIO ARRIBA
UL or let no.	Section	11 E	Bottom	Hole L	ocation I	f Different		m Surfa		
oc or inche.	Section	township	Hange .	COC 101	reet from the	NOTER/SOUTH TIME	rae	C TOM CHE	East/West line	County
Deducated Acres	318	.60 Acr	es - E	/2	13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order	No.		<u> </u>
NO ALLOW	IABLE W	ILL BE A	ASSIGNE NON-ST	D TO TH	IS COMPLETI UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INTE BY T	RESTS HA	VE BEEN COI	NSOL IDATÉ
05: LO: 8: 8	Т		5: 0 T 7		0 LOT 6 6		. 6 .	I hereby contained to the bes	TOR CERTIFICATION CERTIFY that the herein. is true audit of my knowledge with the control of the	information nd complete
1320.00.					: 107 29.0613 ATUM: NAD27	w 	320.00° 1296	Printed Na Staff Title	-	
	10 11 12 A	BAR	· —	5		ASE	1320	I hereby cer shown on the notes of act my supervisit and correct Survey [YOR CERTI thify that the we is plat was plot tual surveys made ion, and that the to the best of a Date: OCTOBE nd Seal of Profes	ell location sed from field by me or under same is true' my bullef ER 6, 2004 sional Surveyor
2640.000	SEP 20	DIV.	19.70.77		SF-0	80377 6 total acres	2640.00	. ,	SON C. EDW MEXIC 15269)
			5	 295.84				UASO	ACE E	

Submit 3 Copies To Appropriate District Office	State o	of New Mexico		Fonn C- 1 03
<u>District I</u>	Energy, Mineral	ls and Natural Resources	WELL API NO.	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District 11			WELL API NO.	
1301 W. Grand Ave., Artesia, NM 882 I 0		RVATION DIVISION	5. Indicate Type of Leas	e
District III 1 000 Rio Brazos Rd., Aztec, NM 8741 0		th St. Francis Dr.	STATE	FEE
District IV	Santa	Fe, NM 87505	6. State Oil & Gas Lease	No.
1220 S. St. Francis Dr., Santa I e, NM 87505				
	CES AND REPORTS (7. Lease Name or Unit A	greement Name
(DO NOT USE THIS FORM FOR PROPORTION OF THE PROP	SALS TO DRILL OR TO DE CATION FOR PERMIT" (FO	EPEN OR PLUG BACK TO A RM C-101) FOR SUCH	SAN JUAN 29	4 LINIT
PROPOSALS.)	Goo Wall 57 ou		8. Well Number	
1. Type of Well: Oil Well	Gas Well Other			59B
2. Name of Operator	ConocoPhillip	s Company	9. OGRID Number	217817
3. Address of Operator	Conocor minip	5 Company	I 0. Pool name or Wildca	
1	4001 Penbrook, Od	essa TX 79762	BLANCO MES	AVERDE
4. Well Location	10011 Onoroon, Ou		DEMITO NIBO	ATTERDE
Unit Letter B	660 feet from the	North line and	2250 feet from the	East line
Section 5:	Township	29N Range 6W	NMPM Rio Arriba	County
	I 1. Elevation (Show)	whether DR, RKB, RT, GR, etc.)		<u> </u>
		6489 GL		· · · · · · · · · · · · · · · · · · ·
Pit or Below -grade Tank Application 🔀 C		>1000.		ce water 200'
Pit type DRILL Depth to Groundwa		earest fresh water well 4000	Distance from nearest surfa	ce water 200
Liner Thickness: mil	Below-Grade Tank: V	olume bb1s; Con	struction Material	
12. Check A	ppropriate Box to I	ndicate Nature of Notice, I	Report or Other Data	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON TO PULL OR ALTER CASING THER: 13. Describe proposed or complete of starting any proposed wo or recompletion.		COMMENCE DRIL CASING/CEMENT OTHER:	LING OPNS. P AND JOB give pertinent dates, includ	ing estimated date
or recompletion.				
he pit will be constructed and closed in scation of the pit in reference to the pro he solids left after the water has bee	posed wellhead. The drill	pit will be lined. The drill pit will mpled and NMOCD approval wi	ge closed after the well has t	een completed.
hereby certify that the information ab rade tank has been/will be constructed or c	ove is true and complete	to the best of rny knowledge and	d belief. Norther certify that	anv pit or below-
IGNATURE Vicki Westby		TITLE Staff Agent	DATE 2	
ype or print name		E-mail address:	Telephone 1	ME COLOR AS MIT AND ADDRESS Coppers, I promote and MANIETY DESIGNATION
or State Use Only	[M 11		5 75CTO2, 013 T. (2)	SED 19 20
APPROVED BY: Conditions of Approval (if any):	E///4/~	TITLE	DATE	apl to th
ŧ	V· /	•		





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 59B

									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<del></del>
Lease:					AFE #: W	AN.CNV	.5123				AFE \$:
Field Name: hPHI	LLIPS 29-6		Rig:				State: 1	NM	County: RIO ARRIBA	1	API #:
Geoscientist: Glas	er, Terry J		Phone	e: (832)486	-2332	Prod.	Engineer:	Moo	dy, Craig E.	Pho	ne: 486-2334
Res. Engineer: Joi	hnson, Tom	ı B.	Phone	e: (832)-486	5-2347	Proj.	Field Lead:	Fran	sen, Eric E.	Pho	ne:
Primary Officetio	ve (/Zones	). Partition of the									
Zone	Zone Nan	ne									
RON	BLANCO N	//ESAVERDE (P	RORA	TED GAS)					•		
e Poetalilen Syllings									Contract of the second	Will 2	
Latitude: 36.76		itude: -107.48		X:		Y:		******	Section: 5	t. 11811.	Range: 6W
Footage X: 2250 F		age Y: 660 FNI		Elevation:	6489	(FT)	Township: 2	 29N			, ,
Tolerance:						<u> </u>					
Location Type:			Start I	Date (Est.):		Con	npletion Date	e:	Date In (	Oper	ation:
Formation Data:	Assume KE	3 = 6502	Jnits =			•				<u> </u>	
Formation Call &		Depth	SS	Depletion	n BHP	Τ	T				
Casing Points		(TVD in Ft)	(Ft)	(Yes/No		BHT			Remarks		
SURFACE CSG		213	6289				12 1/4" Ho cement to		5/8" 32.3 ppf, H-40, S	TC c	asing. Circulate
NCMT		1502	5000				cement to	Surra	ice.		
OJAM		2427	4075	=			Possible wa	ater f	lows,		
KRLD		2652	3850								
FRLD		3162	3340				Possible ga	ıs.			
PCCF		3412	3090								
LEWS		3612	2890								
Intermediate Casing	l	3712	2790				8 3/4" Hole surface.	e. 7"	, 20 ppf, J-55, STC Casi	ing.	Circulate cement to
CHRA		<del>44</del> 27	2075				Possible ga	ıs.			İ
CLFH		5277	1225				Gas; possib	oly w	et		
MENF		5327	1175				Gas.				
PTLK		5577	925				Gas.				
MNCS		5827	675								
Total Depth		5927	575				6-1/4" hole	. 4-1	l/2", 10.5 lb/ft, J-55, Sī um of 100' inside the p	TC ca	nsing. Circulate
							open hole k	ogs.	Cased hole TDT to 150 CBL to 250' above top of	)' abo	ove the Oio Alamo &
iteració Wells							3. 13 3di 14		to 250 doore top t	,	The state of the s
Reference Type V	Vell Name			Commen	ts			OF THE PARTY OF TH		unica General	

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# PROJECT PROPOSAL - New Drill / Sidetrack

**SAN JUAN 29-6 59B** 

		/ if show GR/ILD		i programa de la composición del composición de la composición del composición de la		
TD Logs:	☐ Triple Co	ombo 🔲 Dipmeter	RFT Sc	onic VSP TDT 🗹 O	her	
	Cement Bor	nd Log				
Additional Infor	mation:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks	

Comments: General/Work Description Drilling Mud Program:
Surface: spud mud
Intermediate: fresh water mud with bentonite and polymer as needed
Below Intermediate: air drilling media

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#### San Juan 29-6 # 59B Halliburton Cementing Program

#### **SURFACE CASING:**

Drill Bit Diameter	12.25	**	
Casing Outside Diameter	9.625		Casing Inside Diam. 9.001"
Casing Weight	32.3	ppf	
Casing Grade	H-40		
Shoe Depth	230		
Cement Yield	1.21	cuft/sk	•
Cement Density	15.6	lb/gal	
Excess Cement	125	%	
Cement Required	140	SX	

SHOE

230 ', 9.625 ",

32.3 ppf,

1-40 STC

#### INTERMEDIATE CASING:

8.75 "	
7]" (	Casing Inside Diam. 6.456"
20 ppf	
J-55	
3712	
2.88 cuft/sk	
11.5 lb/gal	
150 %	
742.4	
1.33 cuft/sk	
13.5 lb/gal	
150 %	
372 sx	
217 sx	
	7 " 20 ppf J-55 37.12 2.88 cuft/sk 11.5 lb/gal 150 % 742.4 1.33 cuft/sk 13.5 lb/gal 150 % 372 sx

SHOE

3712 ',

**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	10.5 ppf
Casing Grade	J-55
Top of Cement	3512 200' inside intermediate casing
Shoe Depth	5927
Cement Yield	1.45 cuft/sk
Cement Density	13.1 lb/gal
Cement Excess	50 %
Cement Required	251 sx

### SAN JUAN 29-6 #59B

OPTION 1

9-5/8 Surface Casing					
Standard Cement					
+ 3% Calcium Chlori	de				
+ 0.25 lb/sx Flocele					
140	SX				
1.21	cuft/sx				
171.5	cuft				
30.6	bbls				
15.6	ppg				
5.29	gal/sx				
	Standard Cement + 3% Calcium Chlori + 0.25 lb/sx Flocele 140 1.21 171.5 30.6 15.6				

7" Intermediate Casing					
	Lead Slurry				
	Standard Cement				
Cement Recipe	+ 3% Econolite (exte	ender)			
·	+ 10 lb/sx Pheno Se				
Cement Required	372 sx				
Cement Yield	2.88	cuft/sx			
	1070.2	cuft			
Slurry Volume	190.6	bbls			
Cement Density	11.5 ppg				
Water Required	16.85 gal/sx				

	7" Intermediate Casin	g			
	Tail Slurry				
	50 / 50 POZ:Standar	rd Cement			
Cement Slurry	+ 2% Bentonite				
•	+ 6 lb/sx Pheno Seal				
Cement Required	217				
Cement Yield		cuft/sx			
OL 1/1/1	288.7	cuft			
Slurry Volume	51.4	bbls			
Cement Density	13.5	ppg			
Water Required	5.52	gal/sx			

4-1/2" Production Casing						
	50 / 50 POZ:Standar	d Cement				
	+ 3% Bentonite					
O A D aire a	+ 3.5 lb/sx PhenoSe	al				
Cement Recipe	+ 0.2% CFR-3 Friction	n Reducer				
	+ 0.1% HR-5 Retarder					
	+ 0.8% Halad(R)-9 F	luid Loss Additive				
Cement Quantity	251	sx				
Cement Yield	1.45	cuft/sx				
Comment Values a	364.4	cuft				
Cement Volume	64.9					
Cement Density	13.1	ppg				
Water Required	6.55	gal/sx				

OPTION 2

	9-5/8 Surface Casing		
Cement Recipe	Class G Cement		
	+ 3% S001 Calcium Chloride		
·	+ 0.25 lb/sx D029 Cellophane Flakes		
Cement Volume	148 sx		
Cement Yield	1.16 cuft/sx		
Cement Volume	171.5 cuft		
Cement Density	15.8 ppg		
Water Required	4.983 gal/sx		

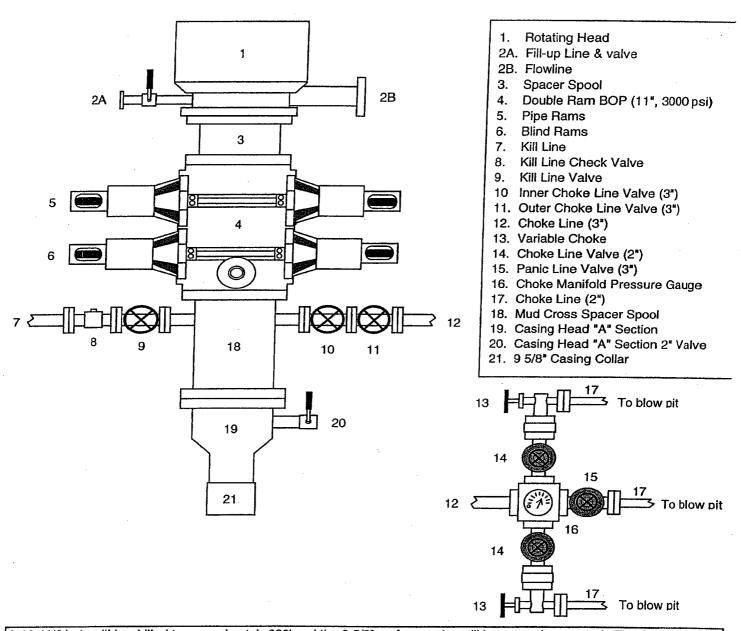
	7" Intermediate Casin	9		
	Lead Slurry			
Cement Recipe	Class G Cement			
	+ 0.25 lb/sx D029 Cellophane Flakes			
	+ 3% D079 Extender			
	+ 0.20% D046 Antifoam			
	+ 10 lb/sx Pheno Seal			
Cement Required	393	sx		
Cement Yield	2.72	cuft/sx		
Slurry Volume	1070.2	cuft		
	190.6	bbls		
Cement Density	11.7	ppg		
Water Required	15.74	gal/sx		

7" Intermediate Casing				
	Tail Slurry			
Cement Slurry	50 / 50 POZ:Class G	6 Cement		
	+ 0.25 lb/sx D029 Cellophane Flakes			
	+ 2% D020 Bentonite			
	+ 1.5 lb/sx D024 Gilsonite Extender			
	+ 2% S001 Calcium Chloride			
	+ 0.10% D046 Antifoam			
	+ 6 lb/sx Pheno Seal			
Cement Required	220	sx		
Cement Yield	1.31	cuft/sx		
Slurry Volume	288.7	cuft		
	51.4	bbls		
Cement Density	13.5	ppg		
Water Required	5.317	gal/sx		

4-1/2" Production Casing				
	50 / 50 POZ:Class G Cement			
	+ 3% D020 Bentonite			
Cement Recipe	+ 1.0 lb/sx D024 Gilsonite Extender			
	+ 0.25 lb/sx D029 Cellophane Flakes			
	+ 3.5 lb/sx PhenoSeal			
	+ 0.25% D167 Fluid Loss			
	+ 0.15% D065 Dispersant			
	+ 0.1% D046 Antifoamer			
·				
Cement Quantity	255	SX		
Cement Yield	1.43	cuft/sx		
Cement Volume	364.4	cuft		
	64.9			
Cement Density	13	ppg		
Water Required	6.51	gal/sx		

### **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



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.

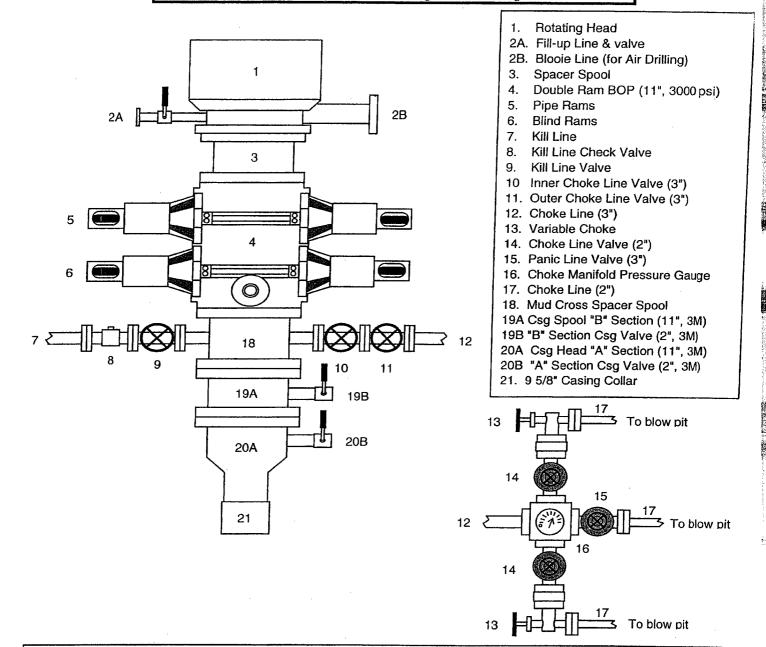
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 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



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 UNIT		Well #:		:	59B			
Surface Lo	eation:							
Unit: B	Section	on: 5 Tow	vnship:_	29N	_Range:	6W		
County: Rio Arriba			State	: New M	exico			
Footogo	660	from the	North	line	2250	from the	Fast	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.