FEB 2006 FOR PICE VED FOR PICE VED FOR PICE VED DIST. S  UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN APPLICATION FOR PERMIT TO I	INTERIOR NAGEMENT RECEI	RM 8 VED VCTON	OMB N Expires I 5. Lease Serial No.	APPROVE io. 1004-013 March 31, 2 078281 or Tribe	17 2007
la. Type of work: DRILL REENTI	ER		7. If Unit or CA Agre	eement, Na	me and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Mult	ple Zone	8. Lease Name and SAN JUAN 2		IT #67F
2. Name of Operator ConocoPhillips Company			9. API Well No.	9-29	7740
3a. Address 4001 Penbrook, Odessa, TX 79762	3b. Phone No. (include area code) 432-368-1230		10. Field and Pool, or BLANCO ME	Explorator SAVERD KOTA	y E/BASIN
4. Location of Well (Report location clearly and in accordance with any S At surface SENW 1800 FNL - 1460 M At proposed prod. zone		I 1. Sec., T. R. M. or Blk. and Survey or Area SECTION 20, T29N, R5W NMPM			
14. Distance in miles and direction from nearest town or post office*			12. County or Parish RIO ARRIB	BA	13. State NM
15, Distance from proposed* location to nearest propery or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 1280 ACRES	17. Spacing	ng Unit dedicated to this well  MV - W/2 - 320.0 ACRES  DK - N/2 - 320.0 ACRES		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 8130'	20. BLM/BIA Bond No. on file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6689' GL	22 Approximate date work will sta	Approximate date work will start* 23. Estimated duration			
	24. Attachments				
<ol> <li>The following, completed in accordance with the requirements of Onshor</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System).</li> <li>SUPO must be filed with the appropriate Forest Service office).</li> </ol>	4. Bond to cover the Item 20 above). Lands, the 5. Operator certification is the Item 20 above.	e operations	s form: sunless covered by an mation and/or plans as	-	•
25. Signature  Title Sf. Associate	Name (Printed/Typed) Pegg	gy James		Date 1/0	06/2006
Approved by Signature Manches Cost  Title  AFM	Name (Printed/Typed)  Office			Date 2/	22/06
Application approval does not warrant or certify that the applicant hold 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		·			

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 juris iction.

\*(Instructions on page 2)

ConocoPhillips Company proposes to drill a vertical wellbore to the Blanco Mesaverde / Basin Dakota formations. This well will be drilled and equipped in accordance with the attachments submitted herewith. This application is for APD / ROW.

This well will be downhole commingled pursuant to the terms and conditions outlined in Order R-11363.

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

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, Hopbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

Instructions on back
Submit to Appropriate District Office
PO Drawer DD, Artesia, NM 88211-0719
OIL CONSERVATION DIVISION
State Lease - 4 Copies
Fee Lease - 3 Copies

District III 1000 Rio Brazos Rd., Aztec, NM 87410 - PO Box 2088 Santa Fe, NM 87504-2088 7005 JAN 10

3 JAN 10 AM AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

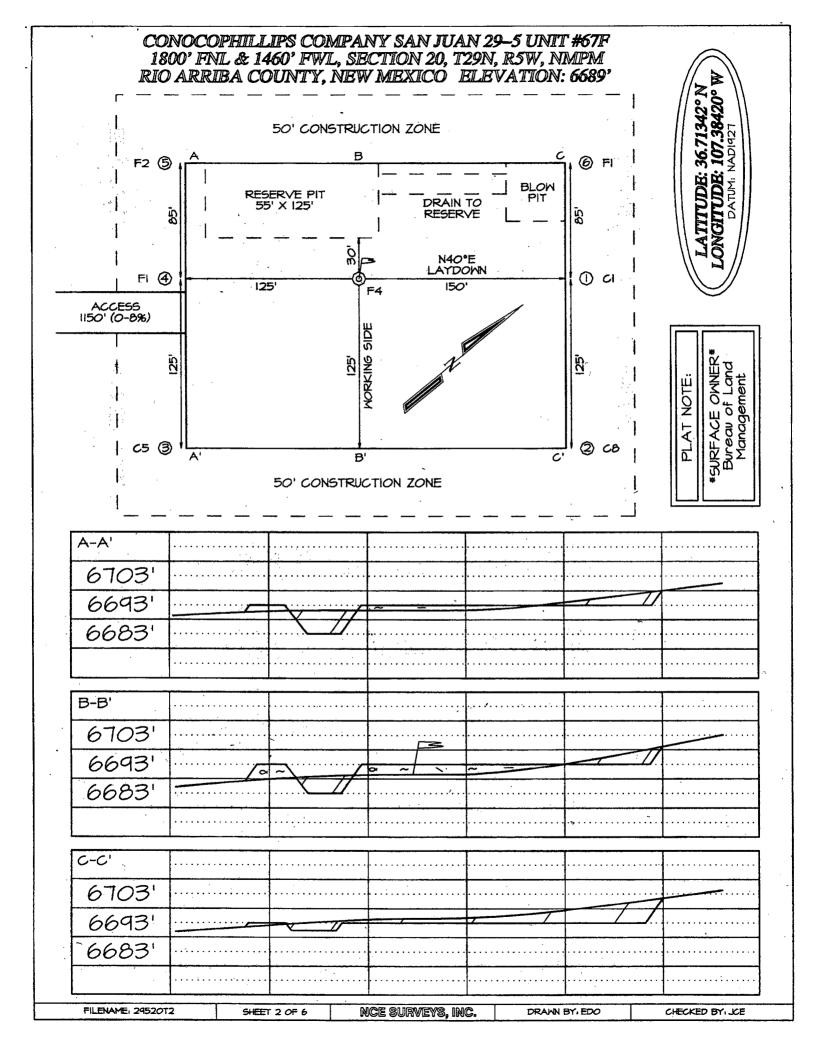
O C C C D / C C

Certificate Number

0 Box 2088, San	ita re, N	M 8/304-	-2088					RECEI	VED			
			WELL	LOCAT	ION AND A	CREAGE DED	IĈĀ <sup>3</sup>	TON PL	ATON:	111		
30-039		740	*Poo1 72319 \	Code 71599	3	BLANCO MES		DE / B	ASIN [	DAKOTA		
<sup>4</sup> Property Coo 31325	de				*Property SAN JUAN 2			/		*We	11 Number 67F –	
'0GRID No. 217817	/		<del></del>	CO	*Operator NOCOPHILLI	Name PS COMPANY			*Elevation 6689			
		<u> </u>	<del></del>		<sup>10</sup> Surface	Location			<del></del>			
1 .	ection 20	Township 29N	Range 5W	Lot Idn	Feet from the 1800	North/South line NORTH	1	t from the 1460	East/Wes		County RIO ARRIBA	
	-	11 E	Sottom	Hole L	ocation I	f Different	Fro	om Surf	ace			
UL or lot no. S	ection	Township	Range	Lat Idn	Feet from the	North/South line	Fee	et from the	East/Wes	st line	County	
Dedicated Acres	320.0	Acres Acres	- N/S - M/S	(MV) (DK)	<sup>13</sup> Joint or Infill	<sup>54</sup> Consolidation Code	<sup>25</sup> Orde	r No.			,	
NO ALLOWAB	BLE WIL	L BE A	ASSIGNED NON-ST	) TO TH: ANDARD	IS COMPLETION UNIT HAS BE	ON UNTIL ALL	INTE BY 1	RESTS H	AVE BE	EN CON	SOLIDATED	
2640,	LONG: 107 '23.0520 W LONG: 107 '23.0520 W LONG: 107 '23.0520 W LONG: 107 '23.0520 W			82.64	SF-0	ASE 18281 2006	,00:082	Signature Virgil Printed Projec Title Date  18 SURVI I hereby shown on notes of	e E. Ch Name ts & C EYOR (certify that this plat in actual sur-	hat the instrue and knowledge when we will be and knowledge with a second control of the control of the well was plotted was plotted was plotted years made	ions Lead	
2640.00°	LEAS						528	Survey Signature	Date: ( and Seal of Control of Co	OCTOBER of Profess . EDWA MEXICO	2 7, 2005 Lional Surveyor	

5287.92

	Submit 3 Copies To Appropriate District Office	State of New M	exico		Fonn C- 1 03		
ŧ	District I	Energy, Minerals and Nat	ural Resources	MELL AD	May 27, 2004		
	1625 N. French Dr., Hobbs, NM 88240 District 11			WELL API	39-29740		
	1301 W. Grand Ave., Artesia, NM 882 1 0 District III	OIL CONSERVATION		5. Indicate	Type of Lease		
	I 000 Rio Brazos Rd., Aztec, NM 8741 0	1220 South St. Fra		STA	·····		
	<u>District IV</u> 1220 S. St. Francis Dr., Santa I e, NM	Santa Fe, NM 8	7303	6. State Oi	l & Gas Lease No.		
_	87505						
		CES AND REPORTS ON WELLS		7. Lease N	ame or Unit Agreement Name		
1	(DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLICATION OF THE PROPOSED PROPOS	ATION FOR PERMIT" (FORM C-101) F	OR SUCH	S	SAN JUAN 29-5 UNIT		
	PROPOSALS.)  1. Type of Well: Oil Well	Gas Well 🛛 Other		8. Well Number 67F			
r	2. Name of Operator			9. OGRID Number 217817			
-		oPhillips Company		I O Dool no	ame or Wildcat		
-	3. Address of Operator 4001 Pe	enbrook, Odessa, TX 79762		1			
-	4. Well Location			BLANCC	) MESAVERDE/BASIN DAKOTA		
Ì	Unit Letter F	1800 feet from the NOR	FH line and	1460 fe	eet from the WEST line		
	Section 20		ange 5W	NMPM	RIO ARRIBA County		
L		I 1. Elevation (Show whether DE			ounty		
Г	Pit or Below -grade Tank Application 🛛 C	losuro 668			\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
- 1	Pit type DRILL Depth to Groundwa		> 1000 '	Distance	7200 < 1000 from nearest surface water 660'		
ľ	Liner Thickness: 12 mil	Below-Grade Tank: Volume 440	Δ.	struction Mate			
L		ppropriate Box to Indicate N	0010, 001				
	12. Check A	ppropriate Box to malcate N		report or c	Julei Data		
	NOTICE OF IN		1		REPORT OF:		
	PERFORM REMEDIAL WORK	PLUG AND ABANDON  CHANGE PLANS	REMEDIAL WORK		ALTERING CASING		
	TEMPORARILY ABANDON DULL OR ALTER CASING	MULTIPLE COMPL	COMMENCE DRIL				
			0.10.110.02.1112.11	002			
_	OTHER:	ctod operations (Clearly state all a	OTHER:				
	of starting any proposed wo	eted operations. (Clearly state all prk). SEE RULE I 1 03. For Multip	pertinent details, and le Completions: Atta	give pertiner ach wellbore	diagram of proposed completion		
	or recompletion.	,			and the property of the proper		
	The pit will be constructed as	nd closed in accordance with Rule	50 and as per COPC	June 2005 G	General Pit Plan on file		
	with the NMOCD See the	attached diagram that details the lo	cation of the pit in re	ference to th			
	The drill pit will be lined. Th	ne drill pit will be closed after the v	vell has been comple	ted			
_							
I g	hereby certify that the information ab rade tank has been/will be constructed or cl	ove is true and complete to the best losed according to NMOCD guidelines [	of rny knowledge an ☐, a general permit ☐ o	d belief. I fur or an (attached)	ther certify that any pit or below- alternative OCD-approved plan		
S	IGNATURE Peggy James	TITLE <u>Sr.</u>	Associate		DATE 01/06/2006		
T	ype or print name	E-mail address pe	ggy.s.james@conocophi	llips.com:	Telephone No.: (432)368-1230		
	or State Use Only	$\bigcap$ /			2 P 1.00. (102)500 1250		
	PROPOSED DY SET	- // //	puty or a gas ins	PECTOR, DIST	A C PATEER 9 A 200E		
	PPROVED BY:Conditions of Approval (if any):	TITLE_			DAIR SO S S COU		





## PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

#### **SAN JUAN 29-5 67F**

Lease:					AFE #: WA	N CNV 5	156			AFE \$:
Field Name: 29-5							State:	NM	County: RIO ARRIBA	API #:
Geoscientist: Glaser,	Torny 1			: (832)486-2	222	Drod E	ngineer:			Phone: 486-2334
Res. Engineer: Hensle				: 832-486-23	-				•	
Primary Objective (			Phone	032-400-23	003	Proj. Fi	eld Lead:	Па	isen, ence.	Phone:
	THE PERSON NAMED IN COLUMN									
	ne Name	(			_					
		TA (PRORATI SAVERDE (PF			_					
NON DE	ANOO MEC	SAVERDE (IT	TOTAL	ED and						
Moedion Suiface										StraightHole
Latitude: 36.71	Longitu	de: -107.38		X:		Y:			Section: 20	Range: 5W
Footage X: 1460 FWL	Footage	e Y: 1800 FN	L	Elevation: 6	689	(FT) T	ownship:	29N		
Tolerance:										
Location Type: Year R	ound		Start D	oate (Est.):		Com	pletion Da	ate:	Date In (	Operation:
Formation Data: Ass	sume KB =	6705 U	Inits =	FT						
Formation Call & Casing Points		Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	ВНТ			Remarks	
Surface Casing		216	6489						rculation. 12 1/4" Hole.	9 5/8", 32.3 ppf, H-40,
NCMT		1455	5250					.5		- <del></del> -
CJAM		2805	3900				Possible v	water	flows.	
KRLD		2955	3750							
FRLD		3200	3505				Possible 9	gas.		
PCCF		3540	3165							
LEWS		3740	2965							
Intermediate Casing		3840	2865				8 3/4" Ho surface.	ole. 7	", 20 ppf, J-55, STC Cas	ing. Circulate cement to
CHRA		4655	2050							
CLFH		5460	1245				Gas; pos	sibly v	wet	
MENF		5550	1155				Gas.			
PTLK		5820	885				Gas.			
CLLP		7075	-370				Gas. Pos	•		
CRHN		7780	-1075					ible, l	nighly fractured	
CBBO		7965	-1260				Gas			
TOTAL DEPTH DK		8130	-1425				a minimu	ım of	I-1/2", 11.6 ppf, N-80, L 100' inside the previous Ne TDT with GR to surfa	TC casing. Circulate cemen casing string. No open holice.
Reference Wells:										

Comments

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Reference Type | Well Name



## PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 29-5 67F** 

(Logging Program Intermediate Logs:		if show 🔲	GR/IL	D Triple	e Combo				
TD Logs:	☐ Triple Co	ombo 🔲 D	ipmete	r 🗆 RFT [	Sonic [	] VSP	✓ TDT		
							,		4,
Additional Informa	tion:		······································	•					
Log Type	Stage	From	(Ft)	To (Ft	)	Tool	Type/Name	Remarks	
Section Genera FWL &	n 20-T29N-R5 al/Work Descr	W, Rio Arribi iption - Drill Section 20-T	a Count and eq	cy, NM. Once uip the SAN J	e establishe IUAN 29-5 (	d and a 67F well	dequately tested I as an 80-acre M	nfill well, to be located 21 d, production will be dow Mesaverde/Dakota infill w nd adequately tested, pro	nhole commingled. rell, to be located 2100
Lease:	ole commingi	eu.		:	AFE #:WA	N.CNV.	5156		AFE \$:
Field Name: 29-5			Rig:	,	A L #. W.	11101111	<del>- 1</del>	County: RIO ARRIBA	API #:
Geoscientist: Glas	er. Terry 1			: (832)486-2	2332	Prod. I			hone: 486-2334
Res. Engineer: He	nsley, Dan E			: 832-486-2			ield Lead: Fran		hone:
Zone	Zone Name				1				
FRR	BASIN DAKO	TA (PRORAT	ED GA	S)					
RON	BLANCO MES	SAVERDE (P	RORAT	(ED GAS)					
Location Surace		do: 107.29		X:		V.		Coetion 20	Statisticale
Latitude: 36.71 Footage X: 1460 F		ide: -107.38 e Y: 1800 Fl		Elevation: 6		Y: (FT) -	Township: 20N	Section: 20	Range: 5W
Tolerance:	WE TOOLAGE	E 1. 1000 i	VL	LIEVALIOII. U		([]]	Township: 29N		
Location Type: Yes	ar Round		Start [	Date (Est.):	<u></u>	Corr	npletion Date:	Date In O	neration:
	<del></del>	. 6705					ipicuon Date.	Date In O	peración.
	Assume KB =		Units =		T BUB		T		
Formation Call & Casing Points		Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	ВНТ		Remarks	
Surface Casing		216	6489					culation. 12 1/4" Hole. culate cement to surface	
NCMT		1455	5250					-	
CJAM KRLD		2805	3900				Possible water f	nows.	
FRLD		2955	3750				Possible gas.		
PCCF		3200 3540	3505 3165				Possible gas.		
LEWS		3740	2965						
Intermediate Casing	)	3840	2865				8 3/4" Hole. 7" surface.	, 20 ppf, J-55, STC Casir	ng. Circulate cement to
CHRA		4655	2050						
CLFH		5460	1245				Gas; possibly w	et	
MENF		5550	1155				Gas.		
PTLK		5820	885				Gas.		
CLLP		7075	-370	Ц			Gas. Possibly v	vet.	

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### PROJECT PROPOSAL - New Drill / Sidetrack

From (Ft)

San Juan Business Unit

SAN JUAN 29-	-5 67F				
CRHN		7780	-1075		Gas possible, highly fractured
CBBO		7965	-1260		Gas
TOTAL DEPTH DK		8130	-1425		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	8				
Reference Type	Well Name			Comments	
Logging Progra	i0θ				
Intermediate Logs	: Log only	if show [	GR/ILD	Triple Combo	
TD Logs:	☐ Triple Co	mbo 🔲 [	Dipmeter	RFT Soni	c □ VSP☑ TDT
Additional Tafansa		· · · · · · · · · · · · · · · · · · ·			The state of the s
Additional Informa	ation:				

Comments: Zones - Drill and equip the SAN JUAN 29-5 67F well as an 80-acre Mesaverde/Dakota infill well, to be located 2100 FWL & 1200 FNL of Section 20-T29N-R5W, Rio Arriba County, NM. Once established and adequately tested, production will be downhole commingled.

To (Ft)

General/Work Description - Drill and equip the SAN JUAN 29-5 67F well as an 80-acre Mesaverde/Dakota infill well, to be located 2100 FWL & 1200 FNL of Section 20-T29N-R5W, Rio Arriba County, NM. Once established and adequately tested, production will be downhole commingled.

Tool Type/Name

Remarks

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Log Type

#### San Juan 29-5 # 67F Halliburton Cementing Program

#### **SURFACE CASING:**

Drill Bit Diameter Casing Outside Diameter Casing Weight	12.25 9.625 32.3	"	Casing Inside Diam. 9.001
Casing Grade	H-40	l	
Shoe Depth	235	'	
Cement Yield	1.21	cuft/sk	
Cement Density	15.6	lb/gal	
Excess Cement	125	%	
Cement Required	143	sx	

SHOE 235 ', 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	3840	
Lead Cement Yield	2.88 cuft/s	sk
Lead Cement Density	11.5 lb/ga	I
Lead Cement Excess	150 %	
Lead Cement Required	385 sx	
Tail Cement Length	768 '	
Tail Cement Yield	1.33 cuft/s	sk
Tail Cement Density	13.5 lb/ga	l
Tail Cement Excess	150 %	
Tail Cement Required	224 sx	

SHOE

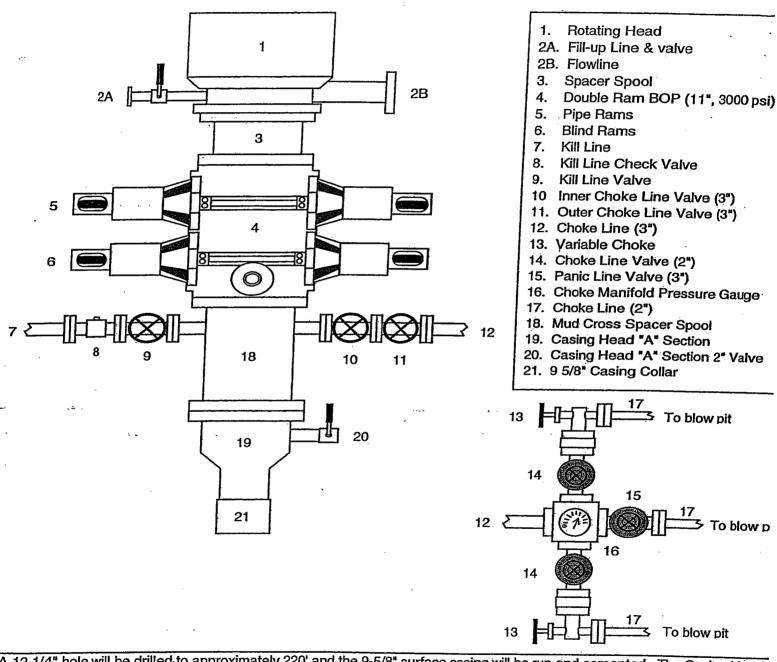
3840 ', 7 ",

20 ppf, J-55 STC

#### **PRODUCTION CASING:**

Drill Bit Diameter Casing Outside Diameter	6.25 " 4.5 " Casing Inside Diam. 4.000 "
Casing Weight	11.6 ppf
Casing Grade	N-80
Top of Cement	3640 ' 200' inside intermediate casing
Shoe Depth	<b>7777 8130</b> '
Cement Yield	1.45 cuft/sk
Cement Density	13.1 lb/gal
Cement Excess	50 %
Cement Required	<b>\$22.472</b> sx

# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing

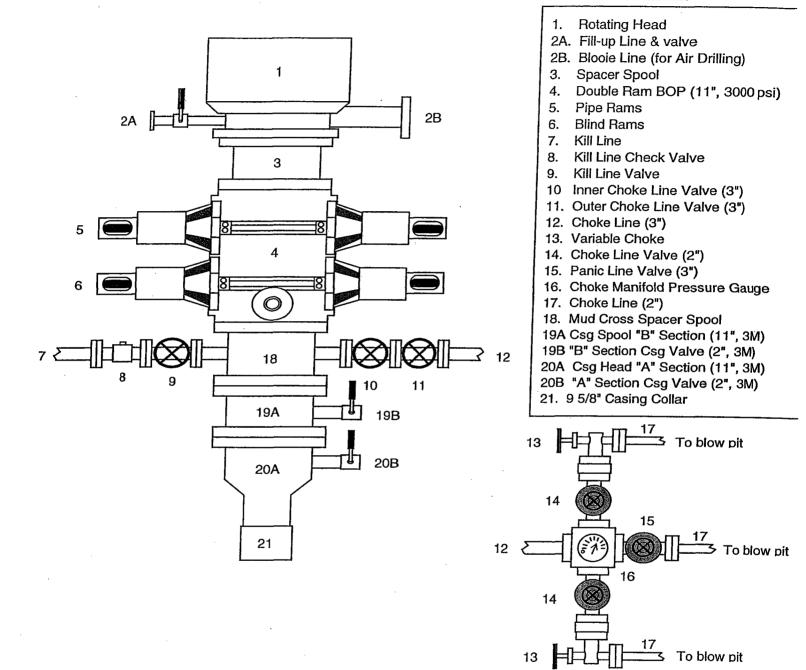


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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

## 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

Property:	SA	AN JUAN 29	-5 UNIT	_	Well #	•	67F		
Surface Loc	ation:								
Unit:F	_Section	on: 20 To	wnship:	29N	_Range:	5W			
County: RI	O ARRI	ВА		State	: New M	exico			
Footsge	1800	from the	NORTH	line	1460	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.