Form 3160 -3 (February 2005)		2005 MAY 2	13 EM	9 39 FORM APPRO OMB No. 100 Expires March	4-0137
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	•		5. Lease Serial No.	
APPLICATION FOR PERMIT TO	DRILL O		roun, Qu	6. If Indian, Allotee or Tri	be Name
Ia. Type of work: DRILL REENI	ER.			7. If Unit or CA Agreement	, Name and No.
lb. Type of Well: Oil Well Gas Well Other		Single Zone Mult	iple Zone	8. Lease Name and Well N San Juan 29-5 U	
2. Name of Operator ConocoPhillips Con	npany			9. API Well No. 39-2	9553
3a. Address	3b. Phone h	No. (include area code)		10. Field and Pool, or Explor	atory
4001 Penbrook, Odessa, TX 79762		432-368-1352		Blanco Mesa	everde
4. Location of Well (Report location clearly and in accordance with any	State requirem	ents, *)		I 1. Sec., T. R. M. or Blk. and	Survey or Area
At surface NWNE 400 FNL - 2500 At proposed prod. zone	0 FEL			Sec. 8, T29N, R5W 1	NMPM
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State
11. Distance in Figure and account of the post of the		•		Rio Arriba	NM
15, Distance from proposed* location to nearest propery or lease line, ft.		acres in lease	17. Spacing	g Unit dedicated to this well	
(Also to nearest drig. unit line, if any)	+	0.88 acres		E/2 - 320.0 acres	S
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Propose	d Depth 6139'	20. BLM/E	NA Bond No. on file	18970773
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approxit	mate date work will star	t*	23. Estimated duration	8 gr
6646' GL	<u></u>			\(\frac{1}{k}\)	UN 2005
	24. Attac	chments		i n	
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	•		form: OIL	COM. Div.
Well plat certified by a registered surveyor. A Drilling Plan.		Item 20 above).		unless covered by all existing	bond on file (see
3 A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service office).	ands, the	5. Operator certifica 6. Such other site sp BLM-		nation and/or plans as may be	required by the
25. Signature	Name	(Printed/Typed) Vicki	Westby	Date 5	/20/2005
Citle Staff Agent					
Approved by (Signary)	Name	(Printed/Typed)		Date	-6-05

Application approval does not warrant or cartify that 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.

Office

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.

Title

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

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

^{*(}Instructions on page 2)

District, I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

OIL CONSERVATION DIVISION PO Box 2088

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

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

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

Santa Fe. NM 87504-2088

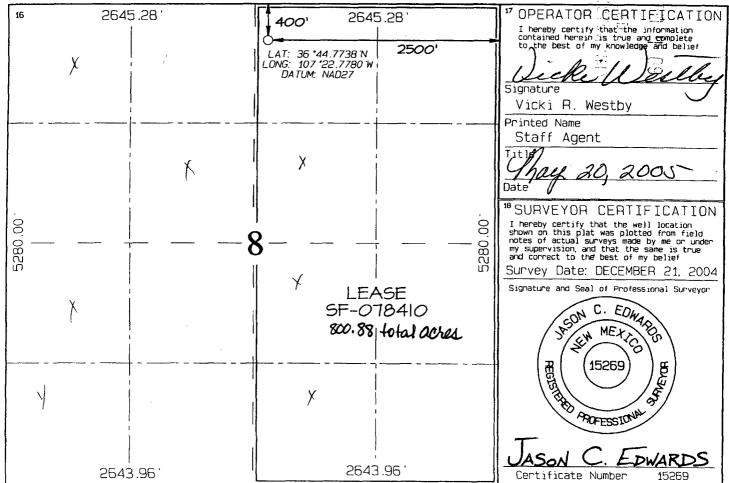
ENDE OF REPORT

JUN 2005 WELL LOCATION AND ACREAGE DEDICATION PL Popl Name 'API Number ²Pool Code OIL CONS. DIV. 72319 BLANCO MESAVER OPT 9 Well Number Property Code Property Name 210,0 31325 SAN JUAN 29-5 UNIT Elevation OGRID No *Operator Name 217817 CONOCOPHILLIPS COMPANY 6646

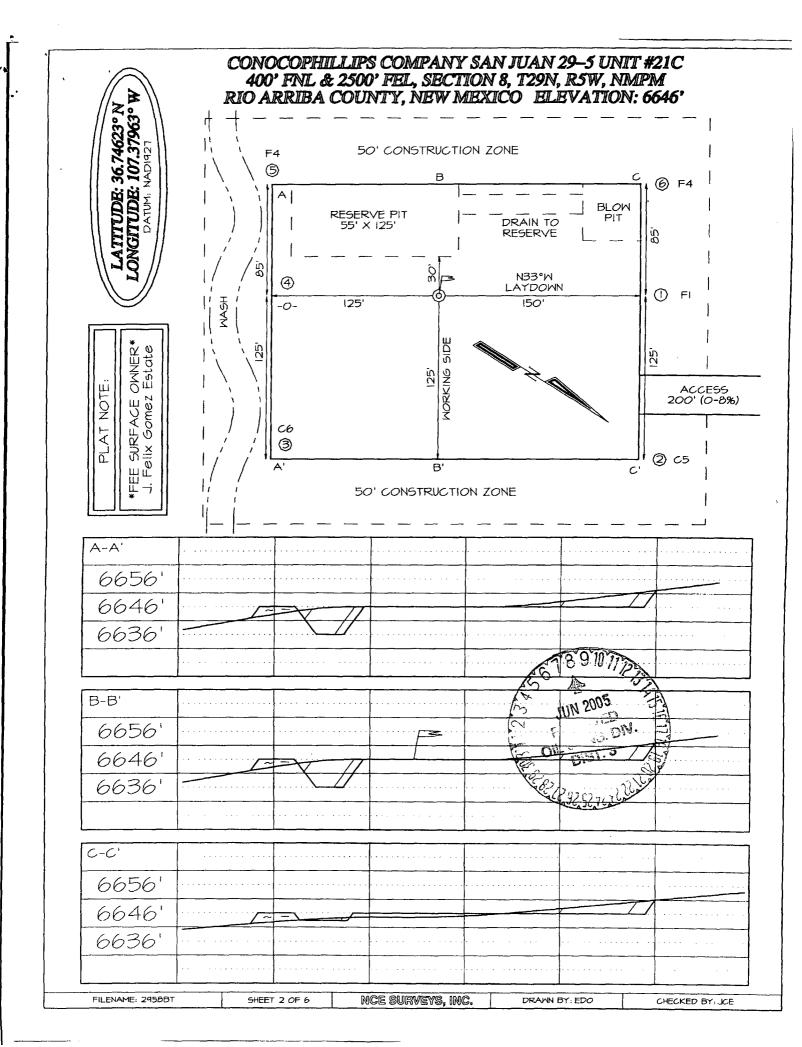
¹⁰ Surface Location Feet from the Lat Ida North/South line UL or lot no. Sect ion Township Feet from the East/West line RIO 400 В 8 **59N** 5W NORTH 2500 EAST ARRIBA ¹¹Bottom Hole Location If Different From Surface

UL or lot no Section Feet from the North/South line Feet from the East/West line County 57 12 Dedicated Acres ¹³ Joint or Infill 14 Consolidation Code 15 Order No 320.0 Acres - E/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



	Submit 3 Copies To Appropriate District Office	State of New Mex	ico			Fonn C-1 03
٠.	District I	Energy, Minerals and Natura	al Resources	THE LANGE		May 27, 2004
•	1625 N. French Dr., Hobbs, NM 88240 District 11			WELL APIN	O.	
	1301 W. Grand Ave., Artesia, NM 882 1 0 District III	OIL CONSERVATION I		5. Indicate Ty	pe of Lease	
	I 000 Rio Brazos Rd., Aztec, NM 8741 0	1220 South St. France		STATE		EE 🗌
	<u>District IV</u> 1220 S. St. Francis Dr., Santa I e, NM	Santa Fe, NM 875	03	6. State Oil &	Gas Lease N	lo.
	87505					
		ICES AND REPORTS ON WELLS SALSTO DRILL OR TO DEEPEN OR PLUG	BACKTOA	7. Lease Nam	e or Unit Agre	ement Name
	DIFFERENT RESERVOIR, USE APPLIC	CATION FOR PERMIT (FORM C-101) FOR		S	an Juan 29-5 l	Unit
	PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other		8. Well Numb	er	21C
	2. Name of Operator			9.OGRIDNu	mber	
	2 A 11	ConocoPhillips Company		I 0. Pool name	or Wildoot	217817
	3. Address of Operator	4001 Bankrook Odaga Tv. 707	.			1
	4. Well Location	4001 Penbrook, Odessa, Tx 7970	02		Blanco Mesave	erde
	Unit Letter B	400 feet from the North	line and	2500 feet	from the	East line
ł	Section 8	Township 20N Rang		NMPM	Rio Arriba	County
		I 1. Elevation (Show whether DR,				
٢	Pit or Below -grade Tank Application 🛛 🤇	losure 6646'	GL			
- 1	Pit type drill Depth to Groundwa		r well > 1 mile	Distance from	nearest surface v	water 100'
	Liner Thickness: mil	Below-Grade Tank: Volume		struction Material		water 100
L						
	12. CIECK	appropriate Box to Indicate Nata	ire of Nodce, i	report or Oth	# Data	
	NOTICE OF IN	TENTION TO:	SUBS	SEQUENT R	EPORT O	F:
	PERFORM REMEDIAL WORK		EMEDIAL WORK			CASING 🗌
	TEMPORARILYABANDON	I	OMMENCE DRIL	=	PANDA	
	PULL OR ALTER CASING [MOLTIFLE COMPL	ASING/CEMENT	JOB [ļ	
_	OTHER:		THER:			
	13. Describe proposed or comp	leted operations. (Clearly state all pertick). SEE RULE I 1 03. For Multiple C	nent details, and	give pertinent da	ites, including	estimated date
	or recompletion.	R). SEE ROLE 1 1 03. FOI Williapie C	oripiedors: Ada	ch wellbore diag	tarn or brobox	sea completion
1	he pit will be constructed and closed in	accordance with Rule 50 and as per the N	ov. 1, 2004 Guide	lines. See the atta	ched diagram t	hat details the
k	ocation of the pit in reference to the pro	posed wellhead. The drill pit will be lined	l. The drill pit will	be closed after the	e well has been	completed.
			mar.	50 10 To		
			(67)	DAM ILES		•
			B	le de		
			Es	IN 2005	F. 3	
			3		1	
			but but	TOWN.	<u>ਵਰ</u> ੀ	
_			Our	0131.	<u> </u>	
gr	hereby certify that the information ab ade tank has been/will be constructed or clo	ove is true and complete to the best of rosed according to NMOCD guidelines \square , a	ny knowledge and general permit (2) or	d belief. I further an (attached) alten	ertify that and native OCD-app	pit or below- roved plan
S	IGNATURE Vicki Westby	TITLE Staff A	gent	TALLA.	DATE 5/20	/2005
	ype or print name	E-mail addres	s:	T	Telephone No.	
<u>F</u>	or State Use Only	1	- CASS - CS - AS A A - 242 A - CS-1	rron neer m	. II IAI _	0 2000
٨	PPROVED BY:	TITLE	OIL & GAS INSP		JUN – date	o 2005
	onditions of Approval (if any):	#			DAIE	





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 21C

Lease:					AFE #:					AFE \$:
Field Name: hPHIL	LIPS 29-5		Rig:				State:	NM County: RIO AF	RRIBA	API #:
Geoscientist: Glas	er, Terry J	<u>-</u>	Phone	: (832)486-	2332	Prod.	Engineer:	Moody, Craig E.	Ph	one: (281) 293 - 655
Res. Engineer: Joh	nson, Tom E	3	Phone	: (832)-486	-2347	Proj.	Field Lead:		Ph	one:
Primary Objectiv	e (Zones):				192	1,0				
Zone	Zone Name)					•			
RON	BLANCO ME	SAVERDE (PF	RORAT	ED GAS)						
Location: Surface								To The Table		Straight Hole
Latitude: 36.75		ude: -107.38		X:		Y:		Section: 8		Range: 5W
Footage X: 2500 FI		e Y: 400 FNL		Elevation: 6	646		Township:			Tunger 544
Tolerance:						(, ,)	ТОТТІБІТІРІ			
Location Type: Sun	mer Only		Start D	ate (Est.):		Con	npletion Da	te· D	ate In Ope	eration:
	Assume KB =									
	Assume KB =		nits =				,			
Formation Call & Casing Points	i	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	}	Re	marks	
SURFACE CSG		213	6446	<u> </u>	1 (== /	.l	Severe Lo	st Circulation is possib	ole. 12 1/4	¹ " Hole. 9 5/8" 32.3 p
				_			H-40, STC	casing. Circulate cer	ment to su	rface.
NCMT		1459	5200	님			Daneilda			
OJAM		2749	3910	片			Possible w	rater flows.		
KRLD FRLD		2919 3239	3740 3420	님			Possible ga	ac		
PCCF		3589	3070	H			rossible go	us.		
LEWS		3789	2870	H						
Intermediate Casing		3889	2770	ñ			8 3/4" Hol	e. 7", 20 ppf, J-55, S	TC Casing	Circulate cement to
				_			surface.	,,	,	
CHRA		4609	2050	닏						
CLFH		5464	1195	H			Gas; possil	bly wet		
MENF PTLK		5509 5789	1150 870		2000		Gas. Gas.			
Total Depth		6139	520	H	2000			e 4 1/2" 10 5 nnf 1	-55 STC 6	asing. Circulate cemer
Total Depart		0139	320	L			a minimum	n of 100' inside the pr	evious cas	ing string. No open
Reference Wells:							hole logs.	Cased hole TDT with	GR to sur	ace.
	/ell Name	168.		Comments						
iterorono Typo tt	- Cir italiic			Comments					20°07	
Logging Program:					62			7.	<u> </u>	
Intermediate Logs: [Log only	if show 🔲 G	R/ILD	Triple	Combo			(%)	63	
								——————————————————————————————————————	JUN 200	3
	_	. — .						- CA	ALCONO.	BW.
TD Logs:	Triple Co	mbo 📙 Dipi	neter	☐ RFT ☐	J Sonic L	_ VSP	∠ TDT			·
									Digg.	
Additional Information	on:							The state of the s	£920267	S S S S S S S S S S S S S S S S S S S
Log Type S	Stage	From (F	t)	To (Ft)		Tool T	ype/Name	Remark	CE TO VO	at-
9 - 3 - 3 - 3 - 3	3-	1/1	"	1000	1	331 1	J Pormanne			

Printed on: 5/16/2005 3:48:37 PM

San Juan 29-5 #21C Halliburton Cement Calculations

SURFACE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth
Cement Yield
Excess Cement
Cement Required

12.25	l"	
9,625	"	Casing Inside
32.3	ppf	-
# H-40		
230	'	
1.21	cuft/sk	
125	%	
147	sx	

SHOE

230 ', 9.625 ",

32.3 ppf,

H-40 STC

INTERMEDIATE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth
Lead Cement Yield
Lead Cement Excess
Tail Cement Length
Tail Cement Excess
Lead Cement Required
Tail Cement Required

8:75	"		
7.	*	Casing Inside Diar	n. 6.456 "
20	ppf	J	
LES	PP.		
2000	,		
3889			
2.88	cuft/sk		
150	%		
777.8	•		
11 33	cuft/sk		
150	%		-
389	SX		17 Q"
227	SX		16
		A	$\langle \gamma \rangle = \Lambda$

SHOE

3889 ',

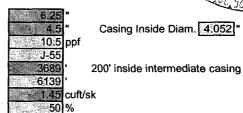
7

20 ppf,

J-55 STC

PRODUCTION CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Top of Cement
Shoe Depth
Cement Yield
Cement Excess
Cement Required



255 sx



Diam. 9.001 "

SHOE 6139', 4.5", 10.5 ppf, J-55 STC

SAN JUAN 29-5 #21C

LIAL	וסו	IRTO	NIC	TO	101

HALLIBURTON OF HON					
9-5/8 Surface Casing					
	Class C Standard Co	ement			
Cement Recipe	+ 3% Calcium Chlori	de			
,	+0.25 lb/sx Flocele				
Cement Volume	147 sx				
Cement Yield	1.21 cuft/sx				
	179.8	cuft			
Slurry Volume	32.0	bbls			
Cement Density	Density 15.6 ppg				
Water Required	5.29	gal/sx			

7" Intermediate Casing						
	Lead Slurry					
	Standard Cement					
Cement Recipe	+ 3% Econolite (exte	ender)				
	+ 10 lb/sx Pheno Se					
Cement Required	389	sx				
Cement Yield		cuft/sx				
	1121.7	cuft				
Slurry Volume	199.8	bbls				
Cement Density	ement Density 11.5 ppg					
Water Required	16.91	gal/sx				

7" Intermediate Casin	g			
50 / 50 POZ:Standard Cement				
+ 2% Bentonite				
+ 6 lb/sx Pheno Seal				
227	sx			
1.33	cuft/sx			
302.0	cuft			
53.8	bbls			
13.5				
5.52	gal/sx			
	+ 2% Bentonite + 6 lb/sx Pheno Sea 227 1.33 302.0 53.8 13.5			

4-1/2" Production Casing					
	50 / 50 POZ:Standard Cement				
Cement Recipe	+ 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	255 sx	1			
Cement Yield	1.45 cuft/sx	1/2			
	369.8 cuft	10			
Cement Volume	65.9	V			
Cement Density	13.1 ppg	Ĵ,			
Water Required	6.47 gal/sx				

SCHLUMBERGER OPTION

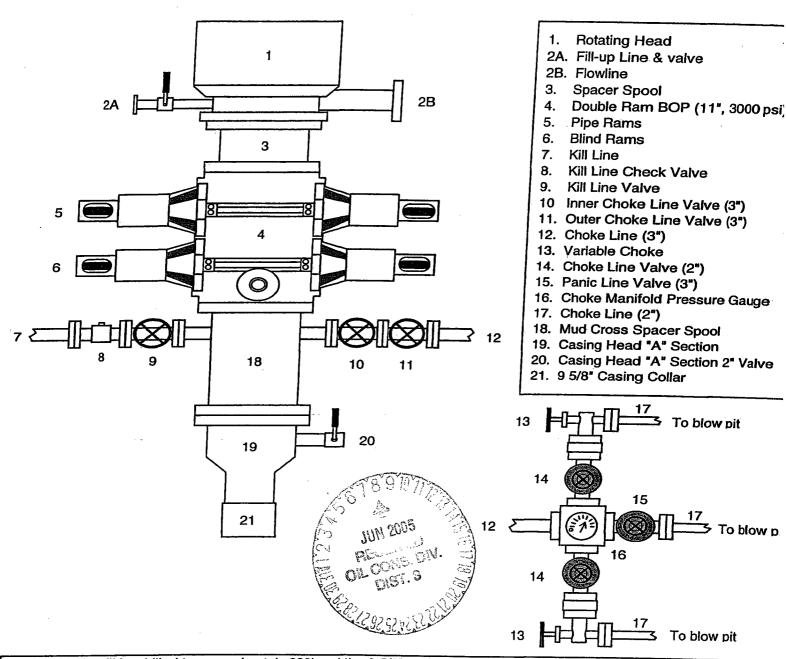
9-5/8 Surface Casing					
	Class G Standard C				
Cement Recipe	+ 2% S001 Calcium				
•	+0.25 lb/sx D029 Ce	llophane Flakes			
Cement Volume	148	SX			
Cement Yield	1.16	cuft/sx			
Cement Volume	171.5 cuft				
Cement Density	15.8 ppg				
Water Required	4.983	4.983 gal/sx			

7" Intermediate Casing						
	Lead Slurry					
	Class G Standard Co	ement				
	+0.25 lb/sx D029 Ce	llophane Flakes				
Cement Recipe	+ 3% D079 Extende					
,	+ 0.20% D046 Antifoam					
1	+ 10 lb/sx Pheno Seal					
Cement Required	413	sx				
Cement Yield		cuft/sx				
	1123.0					
Slurry Volume	200.0	bbls				
Cement Density	11.7 ppg					
Water Required	15.74	gal/sx				

7" Intermediate Casing								
Tail Slurry								
Cement Slurry	50 / 50 POZ:Standard 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	230	SX						
Cement Yield	1.31	cuft/sx						
Slurry Volume	301.9	cuft						
	53.8	bbls						
Cement Density	13.5	ppg						
Water Required	5.317	gal/sx						

_	000000							
7	4-1/2" Production Casing							
۱ ۱	金。	50 / 50 POZ:Class G Standard Cement						
-		+0.25 lb/sx D029 Cellophane Flakes						
	JUN 2005	+ 3% D020 Bentonite						
-	JUN 2000	+ 1.0 lb/sx D024 Gilsonite Extender						
ger.	Cement Recipe	+ 0.25% D167 Fluid Loss						
<i>C</i>	Com. Cold	+ 0.15% D065 Dispersant						
<u>ر</u> ز	5 - 100°	+ 0.1% D800 Retarder						
Ų,	26.00 35.NC 30 1000	+ 0.1% D046 Antifoamer						
ĺ		+ 3.5 lb/sx PhenoSeal						
	Cement Quantity	257	sx					
	Cement Yield	1.44	cuft/sx					
		369.7	cuft					
	Cement Volume	65.8						
	Cement Density		ppg					
	Water Required	6.43	gal/sx					

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



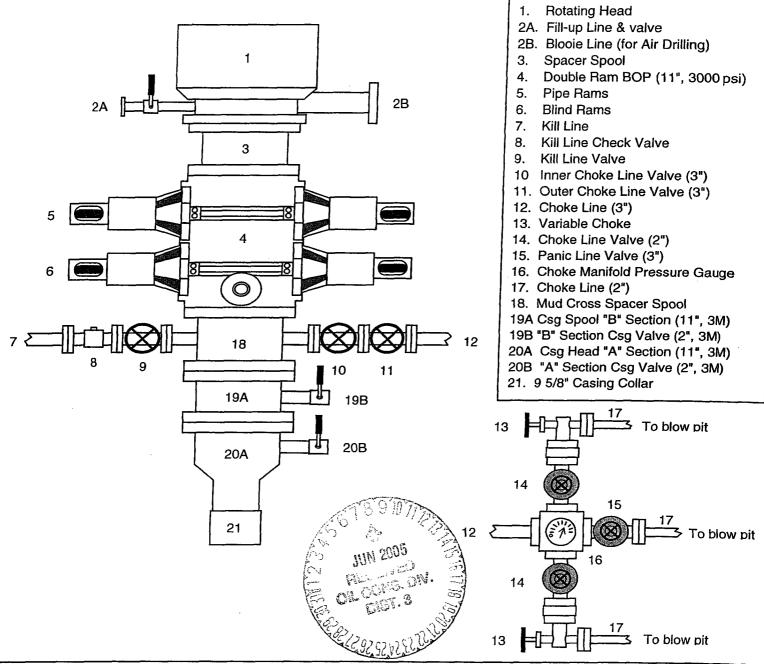
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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

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

H & H TECHNICAL SEVICES A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS PURPOSED C.P. SYSTEM: DRILL G. S. 4SET RECT QS. F EDGE OF LOCATION. ALSO TRENCH Q 200' FR. NEB FROM RECT. TO W.H. WFS P/L 7 FENCE LINE CATTLE GAURD & GATE EXISTING RESERVE 5.J. 29-5 *22A. EXSISTING WELLHEAD NEW WELL METER HOUSE POWER SOURCE OVERHEAD A.C. 8 \triangle COMMENTS: 2550 FROM BURIED A.C. W X224 TO NEW KECT. 870' FROM SPAN POLE TO NECT. CAN UT CROSS FERIE WATE H.C. NEAREST POWER SOURCE: DISTANCE. PIPELINES IN THE AREA: TECHNICIAN: Aldi offer _ DATE: 2-12-05

Property :	San Juan 29-5 Unit		Well #:		21C	
Surface Locat	ion:					
Unit: B	Section: 8_Tow	nship: <u>29</u> 1	N Range:	5W		
County: Rio Arriba			te: New Me	xico		
Footage: 4	100 from the	North line	2500	from the	East	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.

