Form 3160-3 (August 1999)

INTED CTATES

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

DEPARTMENT OF T		•	
BUREAU OF LAND		5. Lease Seria/No. NM-012 3 98	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe N	Tame
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, N	ame and No.
/ 1b. Type of Well: ☐ Oil Well Gas Well ☐ Otl	her Single Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 29-6 UNIT 22	1A
2. Name of Operator Contact: CONOCOPHILLIPS COMPANY	VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com	9. API Well No. 3003927	859
3a. Address 4001 PENBROOK, SUITE 346 ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352	10. Field and Pool, or Explorat BASIN FRUITLAND CO	tory
4. Location of Well (Report location clearly and in accord-	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and	d Survey or Area
At surface SWNW 1500FNL 1200FW At proposed prod. zone	L 3456783	Sec 11 T29N R6W Me	r NMP
14. Distance in miles and direction from nearest town or post	office* OCT 2004	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 Sease	17. Spacing Unit dedicated to the Spacing Unit dedicated Unit dedi	this well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 3462 MD	20. BLM/BIA Bond No. on file	8
21. Elevations (Show whether DF, KB, RT, GL, etc. 6509 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 t	to this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of 	Item 20 above). Stem Lands, the 5. Operator certification	ions unless covered by an existing information and/or plans as may be	
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY		Date 08/03/2004
Title AGENT			
Approved by (Signature)	Name (Printed/Typed)	1	Date /
Title wander	Wayne lownsend		10/4/0
Application approval does not warrant or certify the applicant horoperations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject	lease which would entitle the applic	cant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representate	make it a crime for any person knowingly and willfully tions as to any matter within its jurisdiction.	to make to any department or agend	cy of the United
Additional Operator Remarks-(see next page)			
	sion #34012 verified by the BLM Well Infor	mation System	

For CONOCOPHILLIPS COMPANY, sent to the Farmington

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

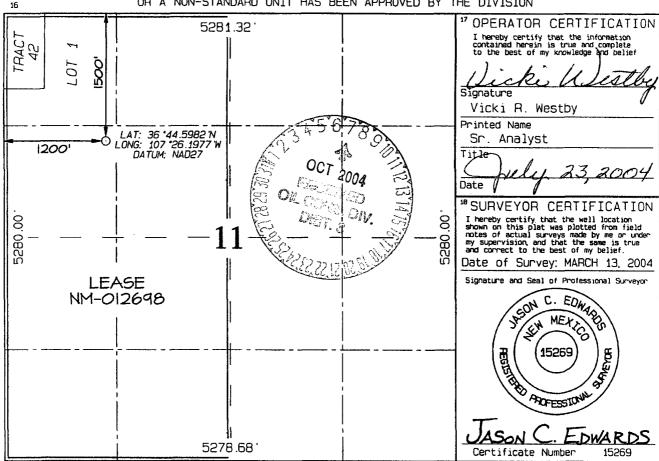
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-27859	*Pool Code 71629	Pool Name BASIN FRUITLAND COAL				
*Property Code		Property Name	Well Number			
31326	S	221A				
OGRID No.		*Operator Name	*Elevation			
217817 CONOCOPHILLIPS COMPANY						
¹⁰ Surface Location						

UL or lot no. Section Lot Idr Feet from the North/South line East/West line Feet from the RIO 29N 1500 E NORTH 11 6W 1200 WEST ARRIBA ¹¹Bottom Hole Location If Different From Surface UL or lot no. Township North/South line Section Range Feet from the Feet from the East/West line County 12 Dedicated Acres [™]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 ON A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

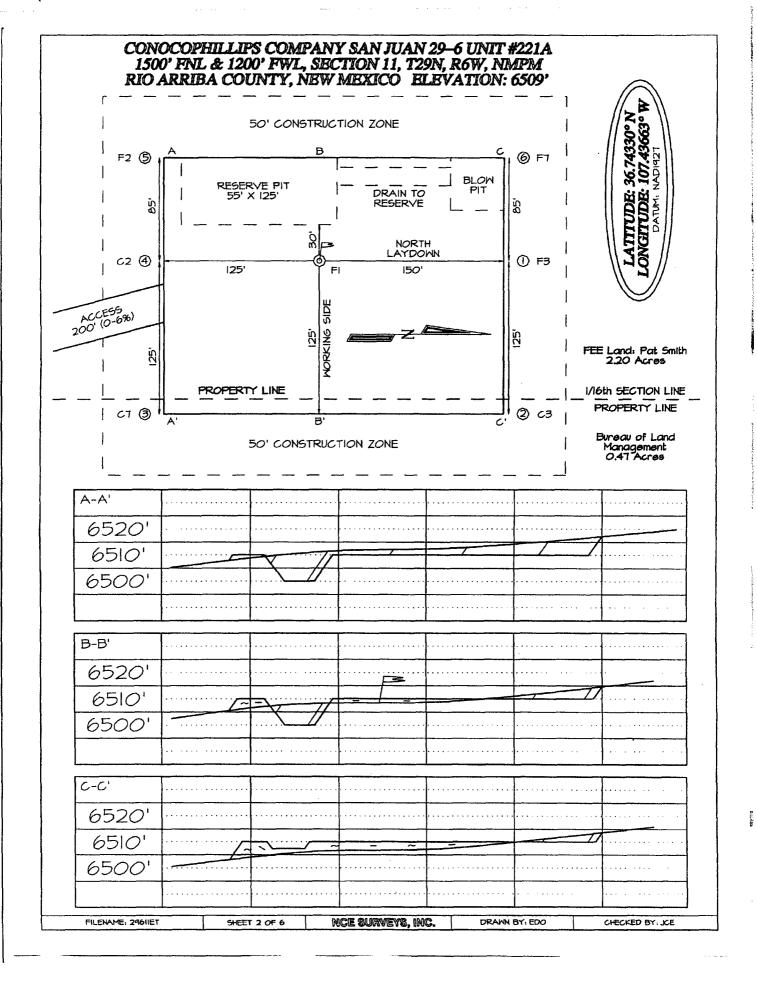


Colors

'Additional Operator Remarks:

ConocoPhillips Company proposes todrill a vertical wellbore to teh Basin Fruitland Coal formation. This well will be drilled and equipped in accordance with the attachments submitted herewith. This application is for APD / ROW. This is a HPA well that doesn't require notification. The 221A is located entirely within the SJ 29-6 FC PA and is surrounded by the PA Operator - ConocoPhillips.

Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office	Energy, Minerals and Natural Resource	
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II	Energy, Minierals and Natural Resource	WELL API NO.
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 29-6 Unit
1. Type of Well: Oil Well	Gas Well Other	8. Well Number 22/A
2. Name of Operator ConocoPhillips Company		9. OGRID Number 2/78/7
3. Address of Operator		10. Pool name or Wildcat
4001 Penbrook, Odessa, T	X 79762	Basin Fruitland (na)
4. Well Location		Touch Transmit (III)
Unit Letter £ :	1500 feet from the North line and	i <u>1200</u> feet from the 11)15† line
Section //	Township 29N Range 6W	NMPM Rio Arriba County
	11. Elevation (Show whether DR, RKB, RT, GR	R, etc.)
	6509 GI	R
Pit or Below-grade Tank Application o	<u>Closure </u> <u>O-100 </u>	Distance from nearest surface water 200-1000
Pit Liner Thickness: mil		; Construction Material
111231101 1 110111001	Dotation Clause Volume Dota	, Constituti material
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON DULL OR ALTER CASING DOTHER: 13. Describe proposed or completion of starting any proposed work or recompletion.	PLUG AND ABANDON REMEDIAL V CHANGE PLANS COMMENCE MULTIPLE COMPL CASING/CEM OTHER: eted operations. (Clearly state all pertinent details	DRILLING OPNS. PAND A
grade tank has been/will be constructed or c SIGNATURE Vicki Wisth	osed according to NMOCD guidelines □, a general permi Graph TITLE SR. Aral	43t DATE 8/3/04
Type or print name Vicki Westby For State Use Only	71	ocoPhillips.com Telephone No. 432-368-1352
APPROVED BY: Conditions of Approval (if any):	TITLE TITLE TO SIL & CAS	INSPECTOR, DIST. 穆 DATE OCT - 7 2004





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 221A

Lease:						AFE #: W	AN.CBN	1.4174		AFE \$:
Field Name: hPHIL	LIPS 2	9-6		Rig:	486-0597	· · · · · · · · · · · · · · · · · · ·	,	State: NM	County: RIO ARRIBA	API #:
Geoscientist: Mur	ohy, Jir	n O.		Phone	e: 832-486-	2361	Prod	. Engineer:	Pl	hone:
Res. Engineer: Kol	esar, J	ames I	E.	Phone	e: (832) 486	5 - 2336	Proj.	Field Lead:	Pl	none:
Primary Objects	ė (Zoi	nes):								
Zone	Zone	Name	· · · · · · · · · · · · · · · · · · ·		. *****					
JCV	BASIN	FRUIT	TLAND COAL	(GAS)						i
Location: Surface										Straight Hole
Latitude: 36.74	L	Longitu	ude: -107.4	1	X:		Y:		Section: 11	Range: 6W
Footage X: 1200 F	WL F	Footag	e Y: 1500 F	NL	Elevation:	6509	(FT)	Township: 29N		
Tolerance:										
Location Type:				Start	Date (Est.):		Co	mpletion Date:	Date In Op	eration:
Formation Data:	Assum	e KB =	= 6522	Units =	: FT					
Formation Call &			Depth	SS	Depletio		ВНТ	.]	Remarks	
Casing Points			(TVD in Ft)) (PSIG)	Dili	<u> </u>	Remarks	
SAN JOSE			13	6509	==			12 1/4 hala 0	E/01/22 2 E 11 40 CTC	
Surface Casing			213	6309	, ,			to surface.	5/8" 32.3 ppf, H-40, STC	casing. Circulate cement
NCMT			1329	5193						1
OJAM			2567	3955	; <u> </u>			Possible water	flows.	
KRLD			2717	3805	=					
FRLD			2989	3533	=			Possible gas.		
Intermediate Casing			3162	3360) [8 3/4" Hole. /" surface.	', 20 ppf, J-55, STC Casing	Circulate cement to
BASE MAIN COAL			3382	3140		165				1
PCCF			3437	3085						
Total Depth			3462	3060					sibly underreamed to 9.5" C - left uncemented.	. Optional Liner: 5.5",
Reference Wells					7			13.5#, 5-33 E10	2 leit uncementeu.	
Reference Type V	Vell Na	ime			Commen	its	•			
		***********					Splate and Automobile in Sec.			
Logging Program	#10-27 B00000-W1-				a Alberta	de establica				
Intermediate Logs:			if show	GR/ILI		le Combo				
TD Logs:		iple Co	ombo 🔲 D	pmete	r 🔲 RFT	Sonic	VSF	TDT		
Additional Informati	оп:									
Comments: Location	•	/Loggii	ng - HPA							
Zones - HPA										
General,	/Work	Descri	ption - Fruitl	and Co	al 160-acre i	nfill well.				

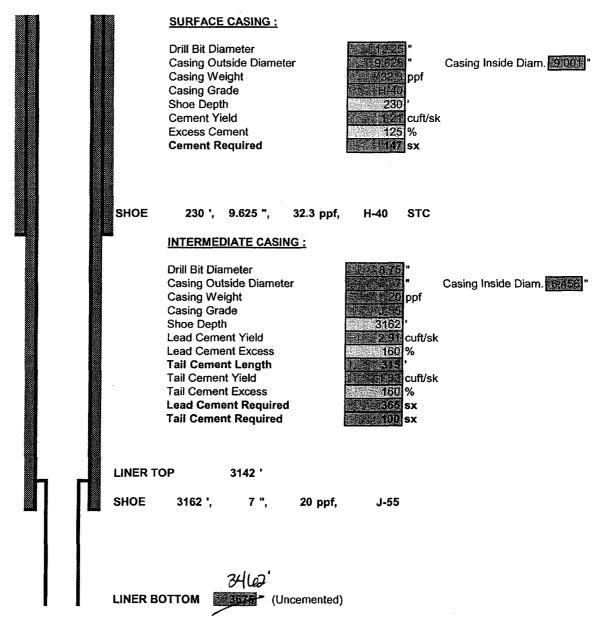
Drilling Mud Program:

Surface: spud mud
Intermediate: fresh water mud with bentonite and polymer as needed
Below Intermediate: air/mist drilling media with foamer, polymer & corrosion inhibitor as needed

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TD includes 80 feet sump/rathole & COPC will comply with the BLM's Conditions of Approval for the proposed sump/rathole in this non-producing Pictured Cliffs formation.

San Juan 29-6 # 221A



San Juan 29-	6#221A	
	Suri Csg	Int. Csg.
OD	9.625	7
IDE STILL AND COLUMN	9.001	6,456
Depth 1 444	230	the state of the s
Hole Diam	12.25	8.75
% Excess Lead		160
% Excess Tail 1	125	160
Lead Yield • • •		2 9/1
Tail Yield	1 - (1,21)	18948
Flor Tail Slerry	230	315
Top of Tall Slurry	0	2847
Top of Lead Slurry	. N/A	0
Mud Wt(ppg)	8.9	9.0
Mind Type	WBM /	WBM

		Surface Casing		
	Ft.		tor bbls cuft	ŚX
Open Hole Ann	านใบร	the property of the second	28.0 16	2.1 134,0
Shoe Track Vo	lume	40 0.078785	4 - 3 - 3 1	7.7
Total Late East				ggi (alsigniar)s

	Ft	Сар	XS Factor	bbls	cuft	SX
Lead Open Hole Annulus	2617	0.026786	2.6	182.3	1023.3	351.6
ead Cased Hole Annulus	220	0.031116	1	6.8	38.4	13.2
Learn Collaine St. Collage St. St. Collage				750.7	1961 F	3624
rall (Open Hole Annulus	315	0.026786	2.6	21.9	123.2	92.6
Tail Shoe Track Volume	42	0.040505		1.7	9.6	7.2
Tail Total *** *** **** ****				28.6	4 4227	101

34	San Juan 29:6 # 221A
	9-5/8 Surface Casing
	Class C Standard Cement
Cement Recipe	+ 3% Calcium Chloride
	+0:25 lb/sx Flocele
Cement Volume	\$15,1147 SX
Cement Yield	1.21 cult/sx
Slurry Volume	*517918 cuft /
	-2 (32.0 bbls
Cement Density	15.6 ppg
Water Required	5.29 gal/sx

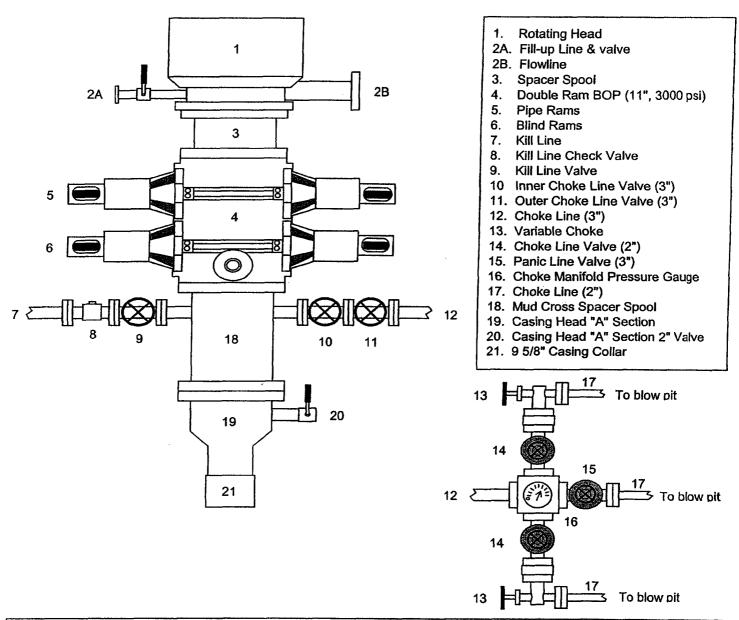
San Juan 29-6 # 221A

	7" Intermediate Casing				
	Lead Slurry				
	Standard Cement				
Cement Recipe	3% Econolite (Lost Circulation Additive)				
	+ 10 lb/sx Gilsonite (Lost Circ. Additvie)				
	+ 0.25 lb/sx Flocele (Lost Circ. Additive)				
Cement Required	p. 1/4/2 1/4 (666 SX				
Cement Yield	2.91 cuft/sx				
Slurry Volume	cut 3106467 cuft				
《张西斯· 法·法斯·斯特·斯特·斯特·斯特·斯特·斯特·斯特·斯特·斯特·斯特·斯特·斯特·斯特	Perils (MISSE) bbls				
Cement Density	11.5 ppg				
Water Required	16.88 gal/sx				

	7" Intermediate Casing				
	Tail Slurry				
	50 / 50 POZ:Standard Cement				
\$198	+ 2% Bentonite (Light Weight Additive)				
Cement Slurry	+ 5 lbm/sk Gilsonite (Lost Circ. Additive)				
	3:00:25 bm/sk Flocele (lost Circ Additive)				
	+2% Calcium Chloride (Accelerator)				
Cement Required	(100 SX				
Cement Yield	1.33 cuft/sx				
elisa Valisa	Conference of Co				
Slurry Volume	25 s 00 (SPL) 1 1 1 1 1 1 1 1 1				
Cement Density	3√ 3√ 3√ pog				
Water Required	5.36 gal/sx				

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



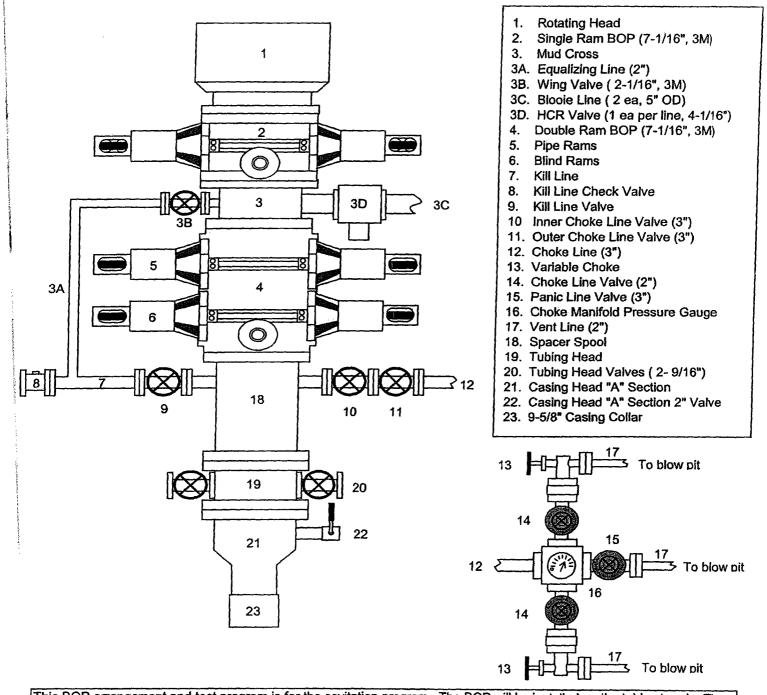
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 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 2-3 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

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM For Cavitation Program

en engelege at the Attack of the Control of the



This BOP arrangement and test program is for the cavitation program. The BOP will be installed on the tubing head. The 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 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. The pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 1800 psi (high pressure test) for 10 minutes - This test will be done with a test plug or possibly without a test plug (ie against casing). If we conduct this test without a test plug we will ensure that we have sufficient drillstring weight in the hole to exceed the upward force generated by the test.

We use a power swivel and air/mist to drill the 6-1/4" hole in our cavitation program. We do not use a kelly. In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. String floats will be used inside the drillpipe
- 2. Stab-in TIW valve for all drillstrings in use
- 3. Each blooie line is equipped with a hydraulically controlled value (HCD value)

Property:	San Ji	ian 29-6		Well #:	221	<u>A</u>
Surface Loca	ition:					
Unit: E	_Section:/	Township: _	29 N	_Range:	10 W	
County: RI	o arriba		State:	New Me	exico	
Footage: 15	がし from	a the North	line,	1200	from the W/S	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.