Form 3160-3 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LAND	5. Lease Serial No. SF-078740		
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name		
Ia. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, N	ame and No.
1b. Type of Well: ☐ Oil Well     Gas Well ☐ Otl		8. Lease Name and Well No. SAN JUAN 30-5 UNIT 22	3A
CONOCÒPHILLIPS COMPANY	VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com	9. API Well No. 30039 27	
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	
4. Location of Well (Report location clearly and in accord	I ance with any State requirements.*)	11. Sec., T., R., M., or Blk. an	d Survey or Area
At surface SESE 1300FSL 815FEL At proposed prod. zone	19 20 21 22 23	ho Sec 20 T30N R5W Me	r NMP
14. Distance in miles and direction from nearest town or post		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 East On CO. Dry.	17. Spacing Unit dedicated to	this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 3365 MD	20. BLM/BIA Bond No. on file	e
21. Elevations (Show whether DF, KB, RT, GL, etc. 6459 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:	·····
<ol> <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 Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above).  5. Operator certification	ons unless covered by an existing formation and/or plans as may be	,
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY		Date 06/22/2004
Title AGENT			
Approved by (Signature) Original Signed: Stephen Mason	Name (Printed/Typed)		Date JUL 1 4 2004
Title	Office		
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ase which would entitle the appli	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 to ions as to any matter within its jurisdiction.	make to any department or agen	cy of the United
Additional Operator Remarks (see next page)			

Electronic Submission #32224 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

First 1, Let it 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".

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

NMOCD

#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

District J 1625 N. French Dr., Hobbs, NM 88240 District E 1301 W. Grand Avenue, Arfeela, NM 88210 District III 1000 Ele Brazes Rd., Axise, NM 87410 District IV

1220 S. St. Francis Dr., Sania Fe, MM 87505

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office

State Lease — 4 Copies

Fee Lease - 3 Copies

AMMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 71629 BASIN FRUITLAND COAL (GAS) SAN JUAN 30-5 UNIT 223A 0080 No. 217817 CONOCOPHILLIPS COMPANY 6459 <sup>10</sup>Surface Location EAST 30N 815 RIO ARRIBA Bottom Hole Location of Differen From County 320.0

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

STALL STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OR CENTRAL STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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## **Additional Operator Remarks:**

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

ConocoPhillips will have mudloggers on location and they will be picking the TD to prevent us from accessing the PC.

This is a HPA well that doesn't require notification. The 223A is located entirely within the SJ 30-5 FC PA and is surrounded by the PA Operator - ConocoPhillips Company.

Submit 3 Copies To Appropriate District	State of New Mexico Form C-103			
Office District I	Energy, Minerals and Natural Resources  June 22, 2004			
1625 N. French Dr., Hobbs, NM 88240				WELL API NO.
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION			f lulius Turnell
District III	1220 Sou	th St. Fra	ncis Dr.	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410		e, NM 8		STATE FEE 6. State Oil & Gas Lease No.
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Janua	0, 1111	7505	6. State Off & Gas Lease No.
87505				
	ES AND REPORTS (			7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA"				
PROPOSALS.)	HONTOKTEKMIT (10	KWI C-101) I	OK JOCH	San Juan 30-5 Unit
1. Type of Well:				8. Well Number
Oil Well Gas Well X	Other			223A
2. Name of Operator				9. OGRID Number
ConocoPhillips Company				217817
3. Address of Operator			<del></del>	10. Pool name or Wildcat
4001 Penbrook, Odessa, TX 79762				Basin Fruitland Coal
4. Well Location				
Unit Letter P : 1	300 feet from the S	SOUTH lin	e and <u>815</u> feet from	the <u>EAST</u> line
Cartier 20	Tr	201	D	NAME OF A STATE OF A
Section 20	Township	30N	Range 5W	
	<ol> <li>Elevation (Show w 6459' GL</li> </ol>	netner DK	, KKB, K1, GK, etc.	
Pit or Below-grade Tank Application (For pi		sures a form	C-144 must be attache	4)
				2 Distance from nearest fresh water well >1 000'
1				
Distance from nearest surface water >200<10	<del>.</del>	ocation UL_	SectTw	Rng ;feet from the
line andfeet from the	line			
NOTICE OF INTE	ENTION TO:			<u> </u>
<u> </u>				ABANDONMENT
	MULTIPLE COMPLETION		CASING TEST AN CEMENT JOB	ID
OTHER: Drill Pit Notification		./	OTHER:	
	1 (01 1			· · · · · · · · · · · · · · · · · · ·
<ol> <li>Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.</li> <li>ConocoPhillips Company's Generic Pit Plan is on file at 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.</li> </ol>				
I hereby certify that the information about and tank has been will be constructed or close	ove is true and comple	te to the be	est of my knowledge	and belief. I further certify that any pit or below-
) . , . , )		Samennes L	a, a general permit La	an (accaence) and native OCD-approved plan [].
SIGNATURE LICKU We	otley	TITLE	Sr. Analyst	DATE <u>6/22/04</u>
Type or print name Vicki Westby	E-mail address: \	/icki.R.We	stby@conocophilli	os.com Telephone No. 432-368-1352
(This space for State use)	7/1		TY ON 9 CAT DUC	
APPPROVED BY Conditions of approval, if any:	MM	TITLE_	e i Oil a ono mie	DATE UL 22 200

CONOCOPHILLIPS COMPANY SAN JUAN 30-5 UNIT #223A 1300' FSL & 815' FEL, SECTION 20, T30N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6459 50' CONSTRUCTION ZONE DRAIN TO RESERVE RESERVE PIT 55' X 125' BLOW PIT Ŗ 125 A-A' 6469' 6459' 6449' 6439 B-B' 6469 6459' 6449' 6439 C-C' 6469' 6459 6449' 6439' FILENAME: 30-5 223A.dwg SHEET 2 OF 6 CHENAULT CONSULTING INC. DRAWN BY: J. FUNK CHECKED BY: J.MILLER



## PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 30-5 223A** 

Lease:				AFE #: WA		1.4188	V/ 1977 LTGA T-A. (M. 1886 A. D'ALT-LIA) A.	AFE \$:
Field Name: hPHILLIF	S 30-5	Rig: .	320-2419	(		State: NM	County: RIO ARRIBA	API #:
Geoscientist: Murphy	, Jim O.	Phone	e: 832 <del>-</del> 486-7	2361	Prod	. Engineer:	F	hone:
Res. Engineer: Kolesa	r, James E.	Phone	e: (832) 486	5 - 2336	Proj.	Field Lead:	F	hone:
Primary Objective (	Zones):						a Signal of Maria	
Zone Zo	ne Name							
JCV BA	SIN FRUITLAND COAL	(GAS)	· · · · · · · · · · · · · · · · · · ·					
Location: Surface	14 (14 (14 (14 (14 (14 (14 (14 (14 (14 (							Straight Hole
Latitude: 36.79	Longitude: -107.37		X:		Υ:		Section: 20	Range: 5W
Footage X: 815 FEL	Footage Y: 1300 FS	L	Elevation:	6459	(FT)	Township: 30N		
Tolerance:								
Location Type:	7	Start I	Date (Est.):		Coi	mpletion Date:	Date In O	peration:
Formation Data: Ass	ume KB = 6472 L	Jnits =	: FT					** · · · · · · · · · · · · · · · · · ·
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)		внт		Remarks	
SAN JOSE	13	6459						
Surface Casing	213	6259				12-1/4 hole. 9 to surface.	5/8" 32.3 ppf, H-40, STC	casing. Circulate cement
NCMT	1212	5260						
OJAM	2562	3910				Possible water fl	lows.	
KRLD	2662	3810		•				
FRLD	2870	3602				Possible gas.		
Intermediate Casing	3079	3393				8 3/4" Hole. 7", surface.	20 ppf, J-55, STC Casin	g. Circulate cement to
BASE MAIN COAL	3214	3258		115		Jan Jee.		1
BASE LOWEST COAL	3276	3196						
PC TONGUE	3286	3186						
Total Depth	3365	3107				6-1/4" hole poss	ibly underreamed to 9.5	". Optional Liner: 5.5",
PCCF	3404	3068				15.5#, J-55 LIC	- left uncemented.	
Reference Wells:		6.635	<u> </u>					
Reference Type   Well	Name	10.00	Comment	ts			TAY OF THE STATE O	
		THE RES						
Logging Program:								
Intermediate Logs:		GR/ILD		e Combo				
TD Logs: Additional Information:	Triple Combo Dip	meter	· [] RFT [	Sonic [	] VSP	TDT		
Additional Information.							•	
Comments: Location/To	pps/Logging - HPA							
Zones - HPA								
General/Work Description -								
Mud Log from intermediate casing shoe to TD will be obtained.								

Drilling Mud Program: Surface: spud mud Printed on: 06/22/2004 9:25:03 AM

#### San Juan 30-5 # 223A

#### **SURFACE CASING:**

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

9.625 " 9.001 132.3 ppf H-40 230' 40'

Casing Capacity
Hole / Casing Annulus Capacity

0.0787 bbl/ft 0.4419 cuft/ft 0.0558 bbl/ft 0.3132 cuft/ft

**Cement Required** 

155.0 sx

SHOE

230 ', 9.625 ",

32.3 ppf,

H-40

#### **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

Casing Capacity
Casing / Casing Annulus Capacity
Hole / Casing Annulus Capacity

0.0405 bbl/ft 0.2273 cuft/ft 0.0311 bbl/ft 0.1746 cuft/ft 0.0268 bbl/ft 0.1503 cuft/ft

Lead Cement Required Tail Cement Required 397.1 sx 99.8 sx

**LINER TOP** 

3059 '

SHOE

3079 '.

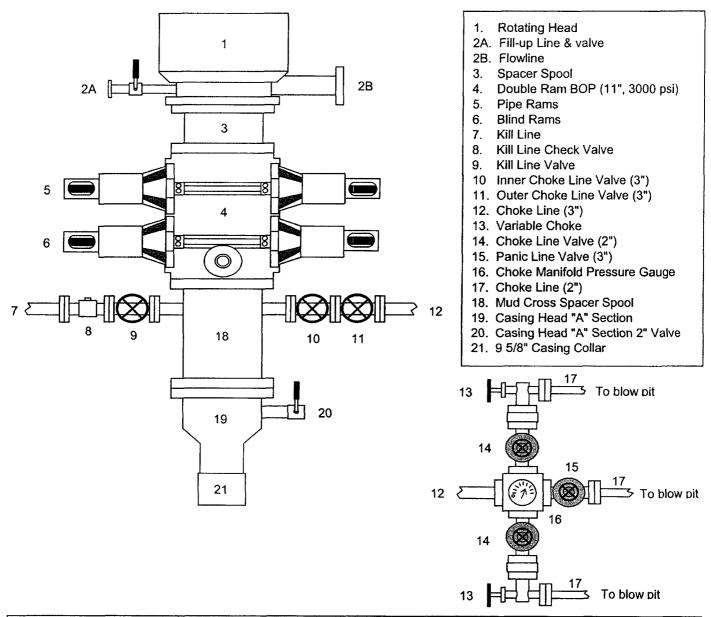
20 ppf,

J-55

LINER BOTTOM 3404 ' (Uncemented)

## BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



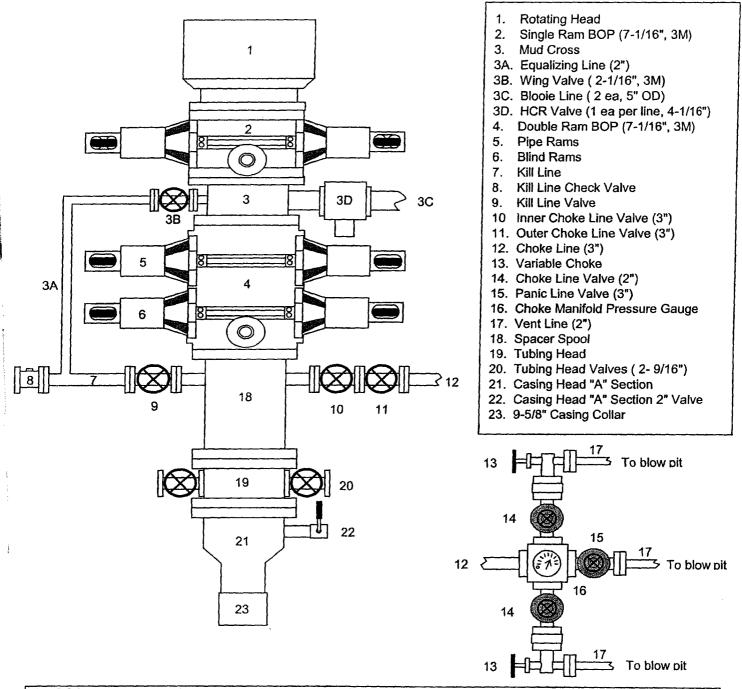
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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



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 valve (HCR valve).

## Calliquic Protection System Description

Anode Bed Type	Deep Well	
Hole Size	8.	
Hole Depth	200 200.	As required to place anodes below moiatura and in low resistance strata.
Surface Casing	8° Diam., ≥ 20° Length. Cernented Ir Annular Space	When needed, casing will be installed at an adequate depth to control ground water flow.  Casing will extend a minimum of 2' above grade, be surrounded by a concrete pad, and sealed with a PVC cap.  Steel casing will be substituted when boulders are ancountered,
Vent Pipe	1° Diam. PVC	Vent pipe will extend from bottom of hole, through top of casing cap, and socied with a 1° perforated PVC cap.
Type Of Anodes	Cast Iron Or Graphite	
Number Of Anodes	B - 20	Sufficient quantity to achieve a total anode bed resistance of $< 1$ ohm and a design life $\ge 20$ years.
Anode Bed Backfill	Loresco SW Caleined Patrolaum Coka Braeza	installed from bottom of hole to 10' above top
Anade Junction Box	8 - 20 Circuit Fibergless Or Metal	Sealed to provent insect & radent intrusion.
Current Splitter Box	2 - 5 Circuit Metal	Sealed to prevent insect & rodant intrusion.
DC / AC Cable	DC: #2, #4, #8, #8 Strandad Copper (One Size Or Any Combination Oi) With High Molecular Weight Polyethylans (HMWPE) Insulation.  AC: #8 Stranded Copper HMWPE	18° depth in typical situation. 24° depth in roadway. & 36° depth in arroyo's and streams. EXCEPTION: It wanching is in extremely hard substratum, depth will be 8 - 12° with cable installed in conduit.  Installed above foreign pipelines if 1' clearance is available. If not, installed under foreign pipeline with 1' clearance (AC cable always installed under foreign pipeline in conduit).
Power Source	11 Rectifler 2) Solar Power Unit 3) Thermeelectric Generator	Choice of power source depending on availability of AC & other economic factors.
External Painting	Color to be selected according to BLM appointments.	Paint applied to any surface equipment associated with the CP system which can reasonably be painted.