Form 3160-3 (August 1999)

UNITED STATES L'EPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LANI	5. Lease Serial No. NM-03404				
APPLICATION FOR PERMI	6. If Indian, Allottee or Tribe Name	6. If Indian, Allottee or Tribe Name			
Ta. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name	and No.		
/ 1b. Type of Well: ☐ Oil Well Gas Well ☐	Other Single Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 31-6 UNIT 213A			
CONOCOPHILLIPS COMPANY	ct: VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com	9. API Well No. 30039 276	807		
3a. Address 4001 PENBROOK, SUITE 346 ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352	10. Field and Pool, or Exploratory BASIN FRUITLAND COAL	,		
4. Location of Well (Report location clearly and in account	ordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Sur	vey or Area		
At surface NWNW 447FNL 1880FV At proposed prod. zone	VL (5.2) 28.29 37 37 37 37 37 37 37 37 37 37 37 37 37	Sec 5 T30N R6W Mer NMI	Р		
14. Distance in miles and direction from nearest town or p	ost office* AUG 2000	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)		17. Spacing Unit dedicated to this w			
18. Distance from proposed location to nearest well, drillin completed, applied for, on this lease, ft.	g, 19. Proposed Depth 3343 MD	20. BLM/BIA Bond No. on file			
21. Elevations (Show whether DF, KB, RT, GL, etc. 6320 GL	22. Approximate date work will start	23. Estimated duration			
	24. Attachments	-l			
The following, completed in accordance with the requirement	ats of Onshore Oil and Gas Order No. 1, shall be attached t	o this form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service 	Item 20 above). System Lands, the 5. Operator certification	ions unless covered by an existing bond	•		
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 06/	/18/2004		
Title AGENT					
Approved by Gieraring an Cie Cox	Name (Printed/Typed)	Date	26.08		
Title AEM	Office FFO				
Application approval does not warrant or certify the applican operations thereon. Conditions of approval, if any, are attached.	t holds legal or equitable title to those rights in the subject	lease which would entitle the applicant	to conduct		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12 States any false, fictitious or fraudulent statements or representations.		to make to any department or agency of	f the United		
Additional Operator Remarks (see next page)					

Electronic Submission #32133 verified by the BLM Well Information 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."

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

.

1615 M. Franch Dr., Hobbe, NM 58240 District 3 1301 W. Grand Avenue, Ariesto, NM 68210 District B 1000 No Brazce Rd., Azieo, NM 87410 Otoffici W

District 1

1220 S. St. Francis Dr., Santa Fe, 101 87505

LI AMMENDED REPORT

		WEL	L LOC	ATIO	N AND	ACREAGE	DEDICA	TION PLAT	
3003	Number	7180	7	71629		BAS	IN FRUIT	Mome	GAS)
700000 C	cida	SAN JUAN 31-6 UNIT							21JA
21781	7			CON	COPHILL	PS COMPAN	ίΥ		Elevation 6320
	1, 1972 1, 197	55 g 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	105	urface	Location	a grantin water in the	to the territory of the state of the state of	
UL or lot no. C	Southern 5	30N	6W	Let idn	Food from the 447	NORTH	Feet from the 1880	Lest/West line WEST	RIO ARRIBA
	1	Botto	n Ho	e Le	cation	f Differe	nf From	Surfice	entronegiaen en red et anterioristation et al anterioristation de la companya de la companya de la companya de La companya de la co
UL or let no.	Section	Textiship	Range	Let ide	Fast from Na	Herti/South Bas	fast (rom the	Egal/Wast Skie	County
**************************************	nige (p	or HIRE	necidation	Code 10	rder Ho.				

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

TO PERATOR CENTRICATION I being order that beet of my investigate and being to the between the beautiful briefs to the beat of my investigate and being the links to tray and complete to the beat of my investigate and being trays assist to the beat of my investigate and being trays assist to the beat of my investigate and being trays assist to the beat of my investigate and being trays assist to the beat of my investigate to the beat of the picture of t

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 is a HPA well that doesn't require notification. The 213A is located entirely within the SJ 31-6 FC PA and is surrounded by the PA Operator - ConocoPhillips Company. This application is for APD/ROW.

Submit 3 Copies To Appropriate District Office	t , State	of New Me	xico		Form C-1
District I	Energy, Miner	rals and Natu	ral Resources	WELL API NO.	March 4, 20
1625 N. French Dr., Hobbs, NM 88240 District II	0.22 0.03.202			WELL API NO.	
1301 W. Grand Ave., Artesia, NM 8821				5. Indicate Type	e of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410		outh St. Fran		STATE	FEE
District IV	Santa	a Fe, NM 87	505	6. State Oil & G	Bas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505					
	TICES AND REPORT			7. Lease Name	or Unit Agreement Name
(DO NOT USE THIS FORM FOR PRODIFFERENT RESERVOIR. USE "API				0 Turn 21 6 I	T 14
PROPOSALS.)	 (San Juan 31-6 U	
 Type of Well: Oil Well	X Other			213A	•
	AL] Other			A OCDID Norm	
Name of Operator ConocoPhillips Company				9. OGRID Num 217817	ider
3. Address of Operator				10. Pool name o	or Wildcat
4001 Penbrook, Odessa, TX 79	762			Basin Fruitland	
4. Well Location					
Y Luis Y attan	. 447 fact from th	a North line	- and 1000 fac	t Grown than Want	lim.
Unit LetterC	_: 447feet from th	ie <u>North</u> iind	e and <u>1880</u> iee	t from the <u>west</u>	line
Section <u>5</u>	Township	<u>31</u> N R	ange <u>6</u> W	NMPM Ri	o Arriba County
	11. Elevation (Show	w whether DR,	RKB, RT, GR, etc.		
	6320' GL		2277		
Pit or Below-grade Tank Application					
Pit Location: UL <u>C</u> Sect_5_Twp_					_
	1001 410001 D.I 1 00	. L. W 47			; feet from the
Distance from nearest surface water_>		nk Location UL_	SectTv	νPKιιg	.,
		nk Location UL_	SectTv	rpKiig	
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CONOCOPHILLIPS COMPANY SAN JUAN 31-6 UNIT #213A 447' FNL & 1880' FWL, SECTION 5, T30N, R6W, NMPM RIO ARRIBA COUNTY, NEW MEXICO, ELEVATION: 6320 50' CONSTRUCTION ZONE DRAIN TO RESERVE 2 PLAT NOTE: F7.2 ĸ <u>13</u> (S), A-A' 6340' 6320' 6310' B-8' 6340 6320' 6310' C-C' 6340' 6320' 6310' SHEET 2 OF 6 CHENAULT CONSULTING INC. DRAWN BY:J.FUNK FILENAME: 31-6 213A.dwg CHECKED BY: J. MILLER



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN	31-6 213A	

Printed on: 06/15/2004 1:14:37 PM

Lease:		,	AF	E #: WAN.CBM	.4165			AFE \$:
Field Name: hPHILLIPS 31-6	R	Rig: 48	6-0597	,; ,,	State:	NM County: RIG	O ARRIBA	API #:
Geoscientist: Murphy, Jim O.	P	hone:	832-486-236	1 Prod.	Engineer:	Bergman, Pat W		Phone: (832) 486-2358
Res. Engineer: Anderson, Derric	kK P	hone:	832 486-348	6 Proj.	Field Lead:			Phone:
Primary Objective (Zones):								
Zone Zone Name								
	LAND COAL (C	GAS)		-				
				_				
Locations Surace								Straight Hole
Latitude: 36.85 Longitu	ı de: -107.49	,	K:	Y:		Section: 5		Range: 6W
and the second of the second o	e Y: 447 FNL	; ···	Elevation: 632	20 (FT)	Township:	30N		i
Tolerance:		i		.2 . 5 8.				
Location Type:	S	Start Da	ate (Est.):	Co	mpletion Da	ate:	Date In	Operation:
Formation Data: Assume KB =	= 6333 Ur	nits = 1	FT				****	
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG) BHT			Remarks	
SAN JOSE	13	6320			•			
Surface Casing	213	6120			12-1/4 ho to surface	ole. 9 5/8" 32.3 p e.	pf, H-40, S	TC casing. Circulate cement
NCMT	1063	5270						
OJAM	2263	4070			Possible 1	water flows.		
KRLD	2413	3920						
FRLD	2837	3496			Possible (gas.		
Intermediate Casing	2977	3356			8 3/4" Ho surface.	ole. 7", 20 ppf, J-!	55, STC Cas	sing. Circulate cement to
BASE MAIN COAL	3137	3196		100				
PC TONGUE	3147	3186						
BASE LOWEST COAL	3262	3071						
PCCF	3267	3066						
Total Depth	3343	2990			6-1/4" ho	le possibly underr 55 LTC - left unce	eamed to 9	.5". Optional Liner: 5.5",
Reference Wells:								
Reference Type Well Name	er Benefit Germanian and St. April 1		Comments					
	v if show		Triple C	Combo Sonic VS	р 🗌 тот			
Comments: Location/Tops/Logg projected base of t	ing - This well he lower coal p	will tar backage	get the inter-t	congue coal. If	t is not end	countered, the td v	vill be short	rened to 20 feet below the
Zones - HPA								
General/Work Descr	ription - Fruitlaı	nd Coa	l 160-acre infi	II well.				
Mud Log from inter	mediate casing	shoe t	o TD will be o	btained.				
Drilling Mud Program	Drilling Mud Program:							

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.

	9-5/8*	Surface Casing		
Cement Slurry	Class G			
	+ 3% Calcium Chloride			
	+ 0.25 lb	d/sx D029 Cellophane Flakes		
Cement Volume	149	sx		
Cement Yield	1.21	cuft/sx		
Cement Volume	179.75	cuft		
Cement Density	15.6	ppg		
Water Required	5.29	gal/sx		

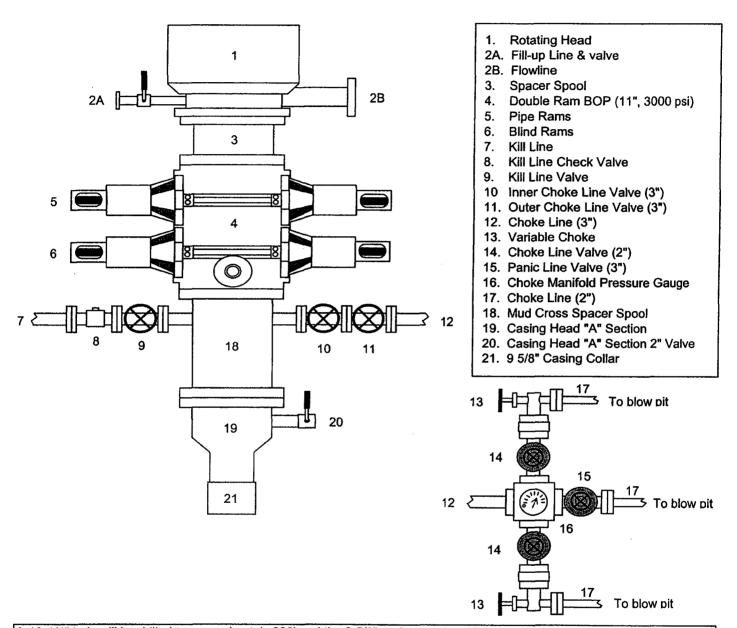
San Juan 31=6 # 213A

POPER (PRINT) INVESTIGATOR (PRINT) Bangari album Indonesia (Print)	7" Interme	diate Casing			
	Lead	l Slurry			
Cement Slurry	Class G				
	+ 3% Eco	onolite			
	+ 10 lb/sx Gilsonite + 0.5% Flocele				
Cement Volume	340	sx			
Cement Yield	2.91	cuft/sx			
Cement Volume	990.65	cuft			
Cement Density	11.4	ppg			
Water Required	16.88	gal/sx			

	7" Interme	diate Casing					
	Tail	Slurry					
Cement Slurry	Slurry 40% POZ / 60% Class G cement						
	+ 2% Ber	+ 2% Bentonite					
	+ 2% Cal	cium Chloride					
	+ 5 lb/sx Gilsonite						
	+ 0.25 lb/sx Flocele						
Cement Volume	100	sx					
Cement Yield	1.33	cuft/sx					
Cement Volume	132.67	cuft					
Cement Density	13.5	ppg					
Water Required							
	l l						

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



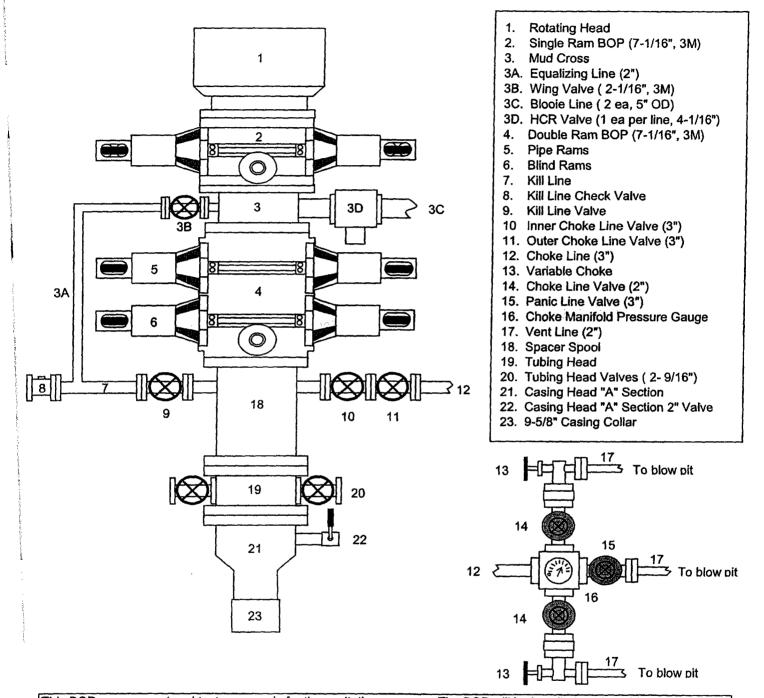
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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