## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

	(	
<b>,</b> 55		5. Lease Serial No NMSF07842

э.	Lease Seliai No.	
	NMSF078426	

BUREAU OF LAND	MANAGEMENT	NMSF078426	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	<del>)</del>
	<u> </u>		
1a. Type of Work: ☑ DRILL ☐ REENTER	6	7. If Unit or CA Agreement, Name	and No.
lb. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	ner Single Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 29-6 UNIT 108M	
2. Name of Operator CONOCOPHILLIPS COMPANY	PATSY CLUGSTON E-Mail: plclugs@ppco.com	9. API Well No. 30039 275	<del></del>
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory	هرب
525 HWY. FARMINGTON, NM 87401	Ph: 505.599.3454 Fx: 505-599-3442	BLANCO MV & BASIN DA	KOTA
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Su	rvey or Area
At surface SWNW 2320FNL 1155FW	L 36.68306 N Lat, 107.50877 W Lon	Sec 31 T29N R6W Mer NI E SME: BLM	MP
14. Distance in miles and direction from nearest town or post APPROX. 39 MILES EAST OF BLOOMFIELD, N	office* VM	12. County or Parish RIO ARRIBA	13. State NM
15. Distance from proposed location to nearest property or	16: No. of Acres in Lease	17. Spacing Unit dedicated to this	well
lease line, ft. (Also to nearest drig. unit line, if any) 1155'		320.00 N/DAK W/2 MV	
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on file	
completed, applied for, on this lease, ft.	8092 MD 8092 TVD	ES0085	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6774 GL	22. Approximate date work will start 02/01/2004	23. Estimated duration 30 DAYS	1
	24. Attachments		
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	o 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).  tem Lands, the  5. Operator certification	ons unless covered by an existing bon-	·
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON	Date 11.	/20/2003
Title AUTHORIZED REPRESENTATIVE			<del> </del>
Approved by (Signature)	Name (Printed/Typed) /3/ David J. Mankiev	ViCZ Date	7 2003
Title	Office	DEC	1 200
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.  Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212,			
States any false, fictitious or fraudulent statements or representat			
Additional Operator Remarks (see next page)			
Electronic Submiss	ion #25350 verified by the BLM Well Inform	nation System	

For CONOCOPHILLIPS COMPANY, sent to the Farmington

The characteristic for the following 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, Hopbs, NM 88241-1980

District II PO Orawer OD, 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

30039	753 72319 \ 71599	Pool Name BLANCO MESAVERDE \ BASIN	DAKOTA
Property Code	SAI	*Property Name	"Well Number
31326		N JUAN 29-6 UNIT	108M
'09RID No.	COND	*Operator Name	Elevation
217817		COPHILLIPS COMPANY	6774

10 Surface Location

U. or lot no. Section Township Renge Lot ion Feet from the North/South line Feet from the East/West line County RIO ARRIBA

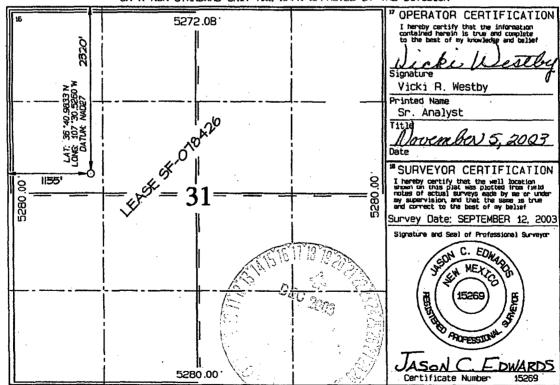
11 Bottom Hole Location If Different From Surface

U. or lot no. Section Township Renge Lot ion Feet from the North/South line Feet from the East/West line Dounty

13 Dedicated Acres 320.0 Acres - W/2 (MV) 320.0 Acres - N/2 (DK)

14 Dedicated Acres 320.0 Acres - N/2 (DK)

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



## **CONOCOPHILLIPS COMPANY**

VV IC. I	LL NAME:	San Jua	11 29-0 Ont #1	OOIAT (TATA \ TOTE)		
DRI	LLING PROGNO	SIS				
ι.	Location of Prop		<u>Jnit E, 2320' FN</u> Section 31, T29N		•	
2.	Unprepared Gro	und Elevation:	<u>@ 677</u>	4' (unprepared)		
3.	The geological n	ame of the sur	face formation i	San Jose.		
<b>1</b> .	Type of drilling	tools will be <u>r</u>	rotary.			
5.	Proposed drilling	g depth is <u>809</u>	<u>)2'</u> .			
5.	The estimated to Nacimiento -	ps of importan 1387'		ers are as follows out – 5787'	<b>::</b>	
	Ojo Alamo -	2667'		hale - 6037'	<del></del>	
	Kirtland Sh -	2837'	Gallup -	7047'		
	Fruitland Fm.	- 3405°	Greenhor			
	Pictured Cliffs		Cubero -			
			_		<del></del>	
	Lewis Shale -	3837'		ate Casing – 393	<u></u>	
	Cliffhouse -	5267'	<u>T.D</u>	8092'		
	Menefee -	<u>5437'</u>		•		
7.	The estimated	denths at whi	ch anticipated	water, oil, gas	or other minera	ıl bearing
	formations are e	-	_			· ·
•	Water:	Oio Alar	mo - 26	667' - 2837'		
	Gas & Water:	Fruitland		105' - 3637'	<del></del>	•
	Gas:	Pictured		37' – 3837'	<del></del>	
	Gas.	Mesaver		37' - 6037'		• .
		Dakota -		957' - 8092'		
		<u>Dakota -</u>		<u> 57 – 8072                                      </u>		
3.	The proposed ca	sing program i	s as follows:		•	
	Surface String: _	9-5/8", 32.3#	H-40 @ 200' *			<del></del>
•	İntermediate Str		I-55 @ 3937' g available)	(J-55 will be use	d, unless the K	-55 is the
	Droduction Stain			)3, (LD)		<del></del>
	Production Strin				11	
			si at a minimum	of 200', but coul	a de set deeper i	required
	to maintain hole	stability.				

#### 9. Cement Program:

Surface String:

130 sx 50/50 POZ, + 2% Bentonite, 3% CaCl2, 5#/sx Gilsonite, 0.25#/sx Cellophane flakes, & 0.2% CFR-3 Friction Reducer (1.34 yield = 174 cf); Cement density - 13.5 ppg. Water required 5.39 gal/sx. Compressive Strength - Sample cured at 70 deg F for 8 hours; 3 hrs 05 min. 50 psi; 7 hrs 45 min 500 psi; cement to surface w/150% excess of casing/hole annulus volume.

#### Intermediate String:

Lead Cement: 398 sx Standard cement + 3% Econolite (extender) + 10#/sx Pheno-seal; (2.88 yield = 1147 cf). Cement Density 11.5 ppg: Water required - 16.91 gal/sx. Compressive strength -Sample cured at 130 deg F for 24 hrs - 1 hr 47 min - 50 psi; 12 hrs - 350 psi; 24 hrs - 450 psi; Cement to surface with 150% excess of casing/hole annulus volume.

Tail Cement: 230 sx 50/50 POZ - Standard cement + 2% Bentonite + 6#/sx Pheno Seal; (1.33 yield = 305.6 cf); Cement Density - 13.5 ppg; Water required - 5.52 gal/sx; Compressive strength - Sample cured at 130 deg F for 24 hrs - 2 hrs 5 min - 50 psi; 2 hr 6 min - 500 psi; 12 hr - 1250 psi; 24 hrs - 1819 Cement to surface with 150% excess of casing/hole annulus volume.

#### Production String \*:

Cement: 457 sx 50/50 POZ – Standard cement + 3% Bentonite + 5#/sx PhenoSeal + 0.2% CFR-3 Friction Reducer + 0.1% HR-5 Retarder + 0.8% Halad-9 Fluid Loss Additive (1.45 Yield - 663.1 cf) Cement density - 13.1 ppg; Water required 6.47 gal/sx; Compressive Strength - Sample cured at 200 de F for 23 hrs; 9 hr 50 min - 50 psi; 13 hrs 45 min - 500 psi; 16 hrs - 1500 psi; 23 hrs 2525 psi.

\*The production casing cement is calculated to cover the openhole interval with 50% excess and annular volume 200' within intermediate shoe. Depending on hole conditions, the well may be cemented in a single stage or two staged.

#### Centralizer Program:

Surface:

Total four (4) - 1st joint - 10' above the shoe & 1 at the top of the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> joints latched over the casing collar

Intermediate: Total seven (9) – 10' above shoe, top of 2nd,  $4^{th}$ ,  $6^{th}$ , &  $8^{th}$ ,  $10^{th}$  its & 10th 1 it. above surface casing, and on first two casing collars below the wellhead. .

Production:

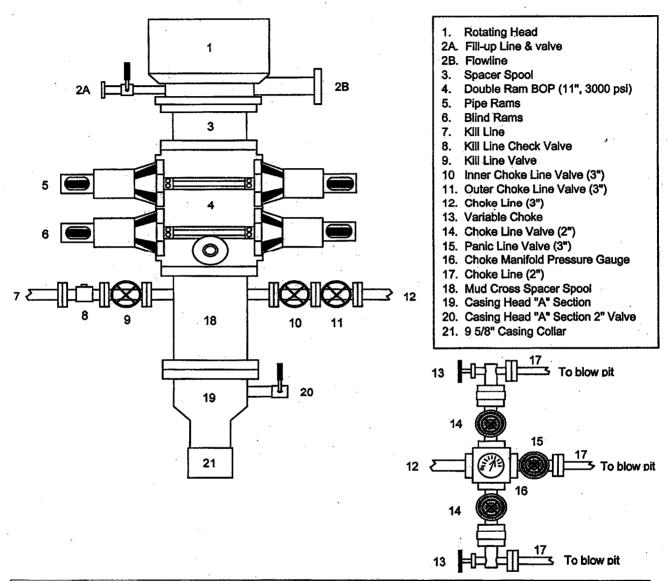
None planned.

Turbulators:

Total Three (3) – on intermediate casing at 1<sup>st</sup> it. below the Ojo Alamo and next 2 its up.

## BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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

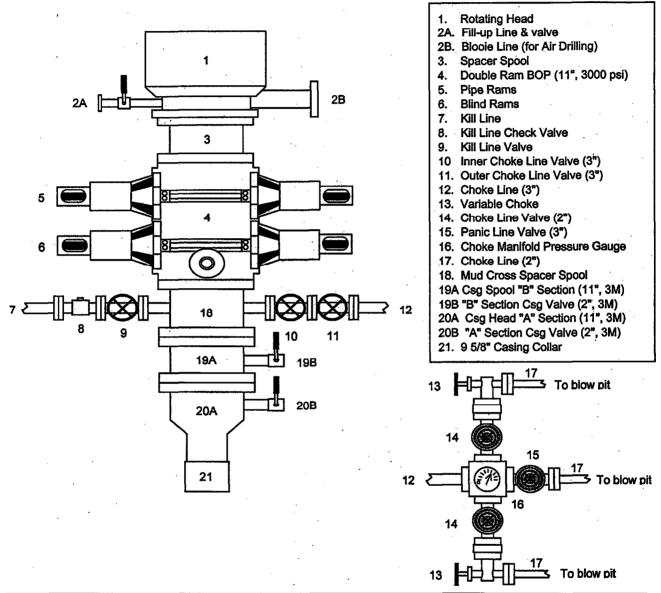


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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). An 8-3/4" hole will be drilled to intermediate casing point and 7" 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 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 2-3 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 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. 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

## San Juan 29-6 Unit #108M NMSF-078426-- Unit E, 2320' FNL & 1155' FWL Section 31, T29N, R6W; Rio Arriba County, NM

### **Cathodic Protection**

ConocoPhillips proposes to drill a cathodic protection deep well groundbed for the subject well. 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 existing well pad and a Farmington based company will be doing the drilling for ConocoPhillips.

See attached drawing on proposed placement of groundbed & underground AC & DC cables and rectifier.