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

APPLICATION FOR PERMIT TO	5. Lease Serial No. NMSF078278			
la. Type of Work X DRILL	REENTER 3 74 3 54	6. If Indian, Allotee or Tribe Name		
1b. Type of Well Oil Well X Gas Well O	ther Single Zone X Multiple Zone	7. Unit or CA Agreement Name and No.		
2. Name of Operator		8. Lease Name and Well No.		
ConocoPhillips Company	3b. Phone No. (include area code)	San Juan 29-6 Unit #102M		
3a. Address	,	9. API Well No.		
5525 Highway 64, NBU 3004, Farmington, NM 4. Location of Well (Report location clearly and in accordance v	87401 505-599-3454 with any State equirements)*	30039275/7		
At surface Unit 0 (SWSE), 100' FSL & 230''		10. Field and Pool, or Exploratory  Basin DK & Blanco MV  11. Sec., T., R., M., or Blk. and Survey or Area		
At proposed prod. zone Same as above	$\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$	Section 10, T29N, R6W		
14. Distance in miles and direction from nearest town or post office		12. County or Parish 13. State		
approx. 45 miles eas		Rio Arriba. NM		
<ul> <li>15. Distance from proposed*         location to nearest         property or lease line, ft.         (Also to nearest drg. unit line, if any)</li> </ul>	16. No. of Acres in lease 17.	Spacing Unit dedicated to this well  320 E/2 (MV/DK)		
18. Distance from proposed location*	19. Proposed Depth 20.	BLM/BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	8147 '	ES0085		
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start*	23. Estimated duration		
6544 'GL	11/1/03	30 days		
The following, completed in accordance with the requirements of C  1. Well plat certified by a registered surveyor.  2. A Drilling Plan  3. A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office	4. Bond to cover the operations unitem 20 above). 5. Operator certification.	this form: unless covered by an existing bond on file (see ation and/or plans as may be required by the		
25. Signuature	Name (Printed/Typed)	Date		
Laten Chesitin	Patsy Clugston	10/3/03		
SHEAR Administrative Assistant				
Approved by Signature Beecham	Name (Printed/Typed)	NOV - 5 2003		
Title	Office			
Application approval does not warrant or certify that the applican conduct operations thereon.  Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 United States any false, fictitious or fraudulent statements or representations.		illy to make to any department or agency of the		
*(Instructions on Reverse)  This action is subject to	o tophologia and DRIVING ORGENTANA	ALITHODIZED ADE		
blocedaral review ours	pitechnical and DRILLING OPERATIONS spant to 43 CFR 3165.8 SUBJECT TO COMPHAN			

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

320.0 Acres - E/2

- E\5

320.0 Acres

State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504—2088

AMENDED REPORT

Form C-102

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

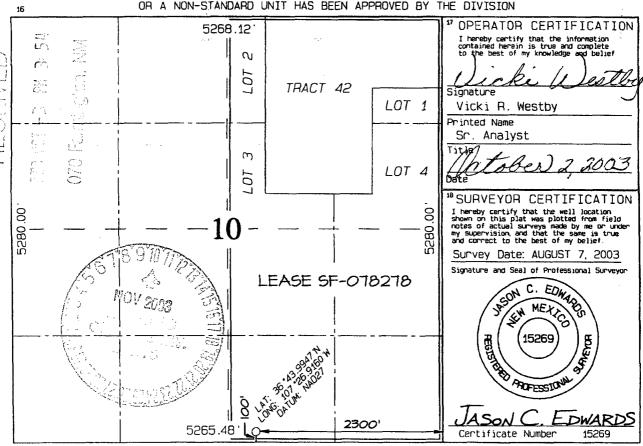
'API Number			*Pool Code *Pool Name				<del></del>			
30-03	59-Z	7517	72319 ,	71599	BLANCO MESAVERDE / BASIN DAKOTA					
Property Code			Property Name			Well Number				
3132	D	SAN JUAN 29-6 UNIT				102M				
'OGRID N	'OGRID No. "Operator Name					*Elevation				
21781	217817 CONOCOPHILLIPS COMPANY 65				6544					
<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
0	10	29N	6W		100	SOUTH	2300	EAST		RIO ARRIBA
11 Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County

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

Joint or Infill

(MV)

(DK)



### **CONOCOPHILLIPS COMPANY**

WELI	L NAME:	San Juan 29	<u>-6 Unit #102M</u>	(MV/DK)		
DRIL	LING PROGNOSIS	_				
1.	Location of Proposed	Location of Proposed Well: Unit O, 100' FSL & 2300' FEL Section 10, T29N, R6W				
2.	Unprepared Ground I	Elevation:	<u>@ 6544' (un</u>	prepared) .		
3.	The geological name	of the surface f	ormation is San	Jose .		
4.	Type of drilling tools	will be <u>rotary</u>	•	. **		
5.	Proposed drilling dep	th is <u>8147'</u> .				
7.	Ojo Alamo - 25  Kirtland Sh - 27  Fruitland Fm 31  Pictured Cliffs - 34  Lewis Shale - 35  Cliffhouse - 51  Menefee - 51  The estimated depth formations are expect	57' 542' 22' 92' 92' s at which an ed to be encour	Pt. Lookout - Mancos Shale - Gallup - Greenhorn - Two Wells - Cubero - Intermediate Ca TD - atticipated water, attered are as foll 2542' -	5552' - 5852' - 6937' - 7609' - 7727' - 7797' - asing – 3702' 8147' , oil, gas or ows: - 2742'	- - - - - other mineral bearing	
	Gas & Water: Gas:	Fruitland - Pictured Cliffs Mesaverde - Dakota -	3122' - 3 - 3402' - 3594' - 7727' -	4452' 5552'	- - -	
8.	The proposed casing p	orogram is as fo	ollows:			
	Surface String: 9-5/	8", 32.3# H-40	@ 200' *			
	<b>-</b>	nly casing avai	lable)		unless the K-55 is the	
	* The surface casing	will be set at a	minimum of 20	0', but could b	e set deeper if required	

to maintain hole stability.

#### 9. Cement Program:

٠,

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:** 374 sx Standard cement + 3% Econolite (extender) + 10#/sx Pheno-seal; (2.88 yield = 1077 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: 216 sx 50/50 POZ - Standard cement + 2% Bentonite + 6#/sx Pheno Seal; (1.33 yield = 287 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: 488 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 – 708 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, 4th, 6th, & 8th, 10th its & 10<sup>th</sup> 1 it. above surface casing, and on first two casing collars below the wellhead. .

Production:

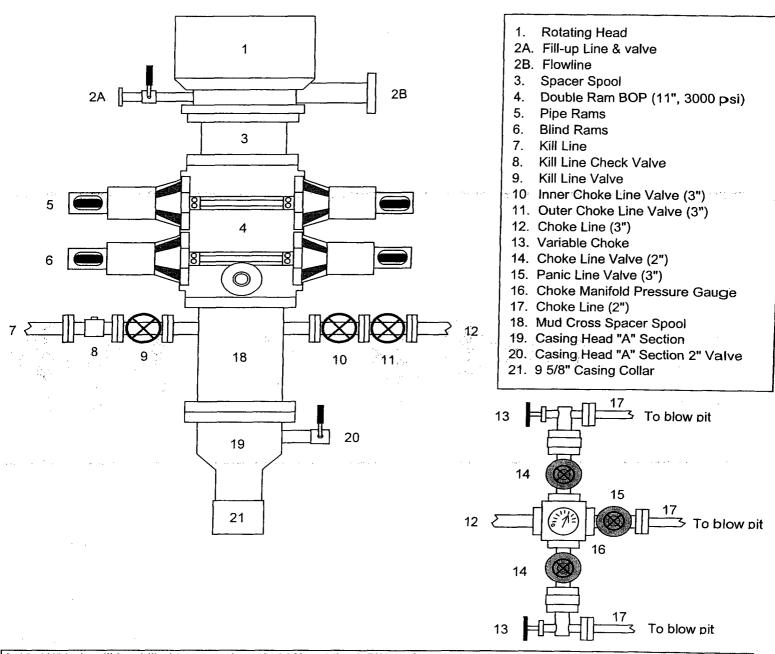
None planned.

Turbulators:

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

### **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**

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



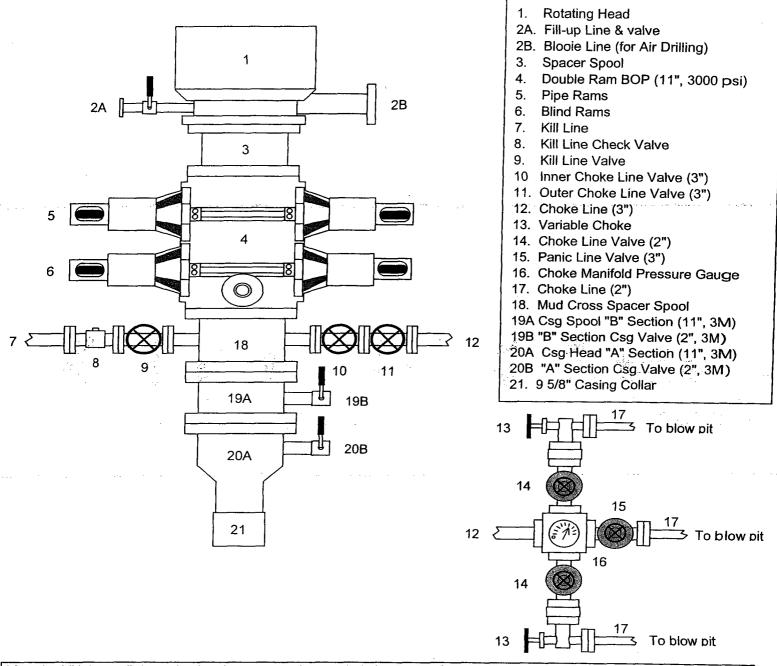
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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 #102M NMSF078278— Unit O, 100' FSL & 2300' FEL Section 10, 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.