n e e e e e e e e e e e e e e e e e e e	√ •		1.
Form 3160-3 (August 1999) UNITED ST	TATES	FORM APP OMB No. 1 Expires Novem	004-0136
DEPARTMENT OF T BUREAU OF LAND N		5. Lease Serial No.	
DUREAU OF LAND I	WANAGEMENT .	NMSF080854	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Trib	oe Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement	t, Name and No.
	ner: CBM Single Zone Multiple Zone	8. Lease Name and Well No SAN JUAN 32-8 UNIT	
2. Name of Operator CONOCOPHILLIPS COMPANY Contact:	PATSY CLUGSTON E-Mail: plclugs@ppco.com	9. API Well No.	31127
3a. Address / 5525 HWY. 64 FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.599.3454 Fx: 505-599-3442	10. Field and Pool, or Explo BASIN FRUITLAND	
4. Location of Well (Report location clearly and in accorded	ance with any State requirements AY 2003	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SWSE 770FSL 1705FEL 3	6.90639 N Lat, 107.64170 W Lon	Sec 11 T31N R8W I	Mer NMP
At proposed prod. zone	ON ON CHARLES DW. S	0	
14. Distance in miles and direction from nearest town or post 30.5 MILES FROM BLOOMFIELD, NM	office*	12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)770	16. No. of Acres in Lease 960.00	17. Spacing Unit dedicated 320.00 F/2	to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on	file
completed, applied for, on this lease, it.	3565 MD 3565 TVD	ES0085	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6670 GL	22. Approximate date work will start 05/15/2003	23. Estimated duration 30 DAYS	
	24. Attachments		
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off 		•	
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON		Date 04/15/2003
Title AUTHORIZED REPRESENTATIVE			L
Approved by (Signature)	Name (Printed/Tyned)		I Doto

AFM

1/

Office

MAY 15 2003

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to 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, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #20643 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".

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

DISTRICT I

241_1090

P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II 811 South

811 South First, Artesia, N.M. 88210

DISTRICT III

1000 Rio Brazos Rd., Astec, N.M. 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87504-2068

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fc, NM 87504-2088

Form C-102
Revised Febuary 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

State Lease — 4 Copies Fee Lease — 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool C	ade	² Pool Name
50-045-	3/6/ 71629	Basin Fruitland	Coa1
⁴ Property Code		Property Name	* Wall Number
31330	<u> </u>	SAN JUAN 32+8 UNIT	248A
*OGRID No.		Operator Name	* Elevation
217817		CONOCOPHILLIPS COMPANY	6670 ¹

Surface Location Township 8W SAN JUAN 11 Bottom Hole Location If Different From Surface UL or lot no. Township Lot kin Feet from the North/South line Feet from the East/West line County M Consolidation Code Order No. Dedicated Acres Joint or Infill 320 E/2 U

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

	·	011 11 11011 1011	NDARD UNIT HAS B	DIN ALTHOUGH D	AT TIME DIVIDION
16		N89°16'W	5147.43'		17 OPERATOR CERTIFICATION
		MO) 10 W	J147.43		I hereby certify that the information contained herein to
1					true and complete to the heat of my knowledge and belief
		[1	[]	
					() $()$
		NS 15 17 78 3	1 7		Latsy Chester
		A 200			Signature
-				•	Patsy Clugston
5186.28	N N	1AY 2003 🖺			Printed Name
86			ا ما	j v	SHEAR Administrative Asst.
51		TW T		11	Title 4-2-03
•				,	4-2-03
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Sectil	n 11		
	V.C.	1 200			18 SURVEYOR CERTIFICATION
-	Q.Z.	7]		I hereby certify that the well location shown on this plat
W0°37'W		a Lille Broken		A	was plotted from field noise of actual surveys made by no or under my supervision, and that the same is true and
3			اسا	21	correct to the best of my bellef.
2				000	
. —		•			10/31/02
		<u> </u>			Signature and Seal of Professional Surveyor:
			SF-080854		
	_ i		960.0 acres	,	
				1705'	BRUADAN
		. /	9 1		Si Maria
			0		R. BROADHURG.
	-	· · · · · · · · · · · · · · · · · · ·	770	1	CHANGE MATERIAL
1		N89°26'W	5126.88'		Corriting for fromber 11393
					131 /8/
					18 July 18 18 18 18 18 18 18 18 18 18 18 18 18
					PROPESSIONAL

CONOCOPHILLIPS COMPANY

DRILLING PROGNOSIS	
DRILLING PROGNOSIS	
DAILLING I ROGNOSIS	
1. Location of Proposed Well: <u>Unit 0,770' FSL & 1705' FEL</u>	
Section 11, T31N, R8W	
2. Unprepared Ground Elevation: <u>@ 6670'</u> .	
3. The geological name of the surface formation is <u>San Jose</u> .	•
4. Type of drilling tools will be <u>rotary</u> .	
Type of mining tools will be <u>loving</u> .	
5. Proposed drilling depth is <u>3565</u> .	
6. The estimated tops of important geologic markers are as follows:	
Naciamento - 1065' Base of Coal - 3565'	
Ojo Alamo - 2390' Intermediate casing – 3265'	
Kirtland - 2470' Picture Cliffs - 3570'	
Fruitland - 3200' T. D 3565'	
<u>Top of Coal - 3285'</u>	
7. The estimated depths at which anticipated water, oil, gas or other mineral	bearing
formations are expected to be encountered are as follows:	
Water Oie Alema 22002 24702	
Water: Ojo Alamo - 2390' - 2470'	
Oil: none	
Oil: none Gas: Fruitland Coal - 3285' - 3565'	
Oil: none	
Oil: none Gas: Fruitland Coal - 3285' - 3565' Gas & Water: Fruitland Coal - 3285' - 3565'	
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Oil: none Gas: Fruitland Coal - 3285' - 3565' Gas & Water: Fruitland Coal - 3285' - 3565' 8. The proposed casing program is as follows: Surface String: 9-5/8", 32.3#, H-40 @ 200' *	
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9. Cement program: (continued from Page 1)

Intermediate String:

Toc at 100'or higher inside surface csq

Lead Cement: 411.4 sx Class G w/3% D079 (chemical extender) 0.25#/sx D029 (Cellephone flakes, 0.05 GPS D047 (Antifoam Agent) 0.2% D046 Flocele (All purpose antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1093.75 cf.

Tail: 96.8 sx - 50/50/G/POZ cement w/2% D020 (Bentonite Extender), 2% S001 (CaCl2), 5#/sxD024 (Gilsonite), ½#/sx D029(Celephane flakes) & 1% D046 (all purpose antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx = 122.93 cf.

Note: ConocoPhillips Company continually works to improve the cement slurries on our wells. Our Cementing Service Companies are currently trying to improve what we are using now and before we would use a new cement program it would have to have stronger properties than we are currently using.

Centralizer Program:

Surface:

Total four (4) - 10' above shoe and top of 2nd, 3rd, & 4th its.

Intermediate: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

1st it. into shoe.

Total three (3) - one at 1st it below Ojo Alamo and next 2 its up.

Liner:

- If the coal is cleated a 5 1/2" 15.5# liner will be run in the open hole without being cemented.
- If the coal is NOT cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation. The top of the liner will be set approx. 200' into the 7" casing and be set @ TD and be cement in place as follows:

Lead Cement: Approx. 150% excess - Standard with 3% Econolite + 10 lbs/sx Gilsonite + 0.5 lbs/sx Flocele + mixed at 11.4 ppg with a yield of 2.91 ft³/sx

Tail: 50/50 Poz Standard with 0.25 lbs/sx Flocele + 5 lbs/sx Gilsonite + 2% Bentonite and 2% CaCl₂ mixed at 13.5 ppg with a 1.33 ft³/sx yield.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

San Juan 32-8 Unit #248A

SURFACE CASING:

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

" 8.989 ppf \$21.00 \$2.00 \$40.00 \$1.00 \$40.00

Casing Capacity
Hole / Casing Annulus Capacity

Cement Required

123.2 sx

SHOE

200 ', 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

6.455 ppf 20 ppf cuft/sk #50 % cuft/sk cuft/sk %

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

0.0405 bbl/ft 0.0309 bbl/ft 0.0268 bbl/ft

0.2272 cuft/ft 0.1734 cuft/ft 0.1503 cuft/ft

Lead Cement Required Tail Cement Required

411.4 sx 96.8 sx

LINER TOP

3245 '

SHOE

3265 ',

7 ",

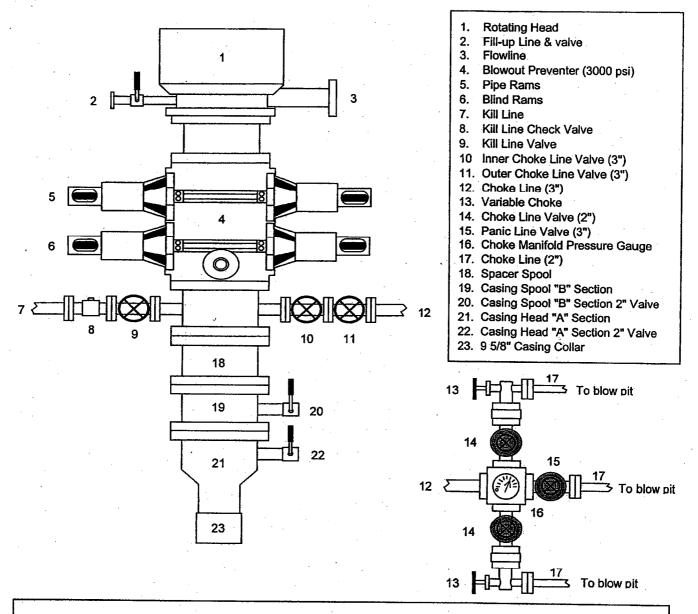
20 ppf,

J-55

LINER BOTTOM

2506

BLOWOUT PREVENTER HOOKUP



Drilling contractors used in the San Juan Basin suppy 3000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. The above diagram of the BOP system details 2000 psi equipment according to Onshore Order No. 2 even thought the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements.

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 32-8 Unit #248A SF-080854; Unit O, 770' FSL & 1705' FEL, Section 11, T31N, R8W; San Juan 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.