

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88240-1980

## DISTRICT II

811 South First St. Artesia NM 88210-2835

## DISTRICT III

600 Rio Brazos Rd. Aztec NM 87410-1693

State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429Form C-107-A  
New 3-12-96

## APPROVAL PROCESS

☒ Administrative ☐ Hearing

## EXISTING WELLBORE

☐ YES ☒ NO

## APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500

Lease San Juan 28-7 Unit

Well No # 100M

Section 30, T-27-N, R-7-W, P

County Rio Arriba

OGRID NO 005073

Property Code

016608

API NO

30-039-25881

Spacing Unit Lease Types (check 1 or more)

Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling	Upper Zone	Intermediate Zone	Lower Zone
1 Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599
2 TOP and Bottom of Pay Section (Perforations)	5180-5520'		7243-7467'
3 Type of production (Oil or Gas)	Gas		Gas
4 Method of Production (Flowing or Artificial Lift)	To Flow		To Flow
5 Bottomhole Pressure	a (Current) 558		736
Oil Zones - Artificial Lift Gas & Oil - Flowing All Gas Zones Estimated Or Measured Original	b (Original) 1161	b	b 255
6 Oil Gravity (°API) or Gas BT Content	1347		1319
7 Producing or Shut-In?	To Be Completed		To be Completed
Production Marginal? (yes or no)	Yes (Expected)		Yes (Expected)
• If Shut-In give date and oil/gas/water rates of 1st production	Date Rates	Date Rates	Date Rates
Note: For new zones with no production history applicant shall be required to attach production estimates and supporting data.			
• If Producing, date and oil/gas/water rates of recent test (within 60 days)	Date Rates Est 1st Yr Average 144 MCFD-Final to be supplied upon completion	Date Rates	Date Rates Est 1st Yr Average 252 MCFD-Final to be supplied upon completion
8 Fixed Percentage Allocation Formula - % for each zone	Gas	Gas	Gas

9 If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10 Are all working, overriding, and royalty interests identical in all commingled zones? Yes ☒ No ☐If not, have all working, overriding, and royalty interests been notified by certified mail? Yes ☒ No ☐Have all offset operators been given written notice of the proposed downhole commingling? Yes ☒ No ☐11 Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)12 Are all produced fluids from all commingled zones compatible with each others ☒ Yes ☐ No13 Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14 If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15 NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) R-10476 B

## 16 ATTACHMENTS

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula
- Notification list of all offset operators.
- Notification list of working, overriding and royalty interests for uncommon interest cases
- Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Kay Maddox

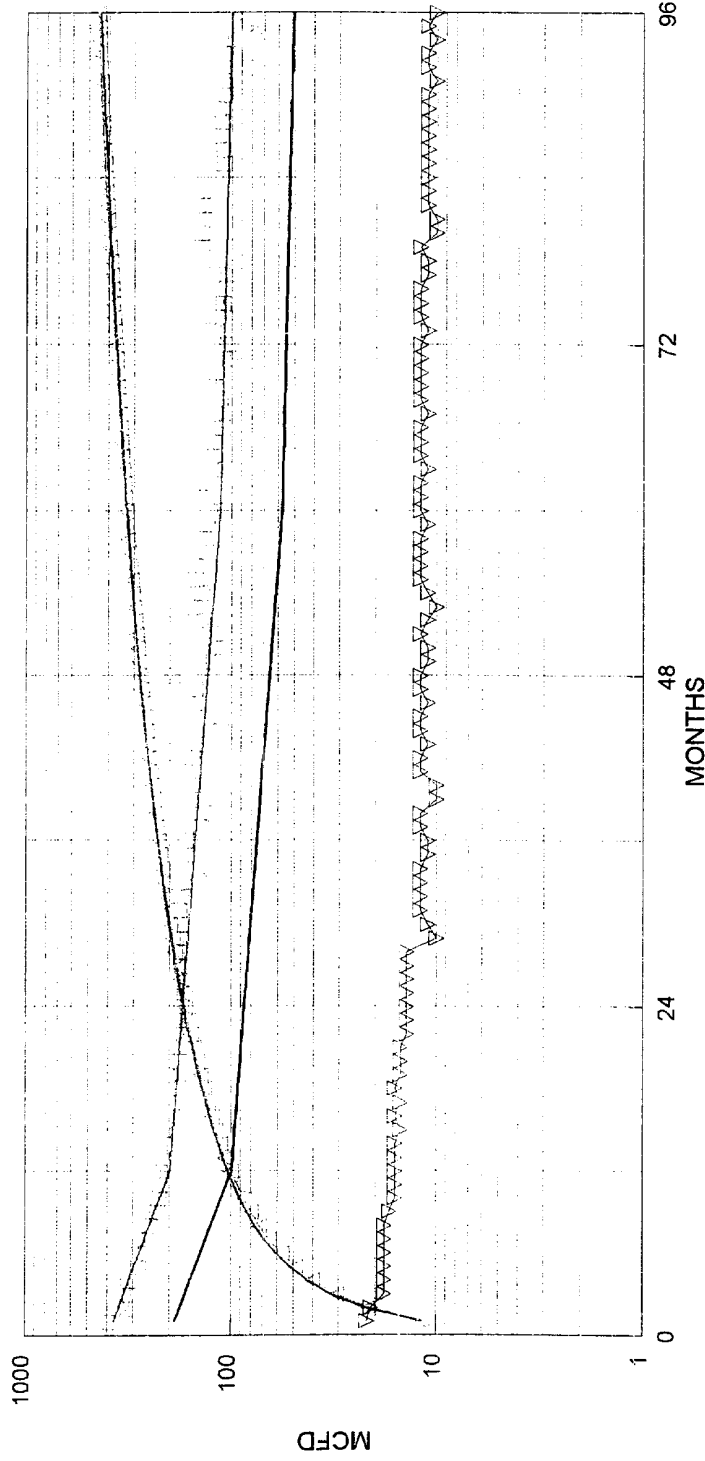
TITLE Regulatory Agent

DATE June 29, 1990

TYPE OR PRINT NAME Kay Maddox

TELEPHONE NO. (915) 686-5798

**NORMALIZED MESAVERDE PRODUCTION**  
**PROD. SINCE 1972; 22 MV WELLS LOCATED IN 27N-7W AND 27N-8W AREA**

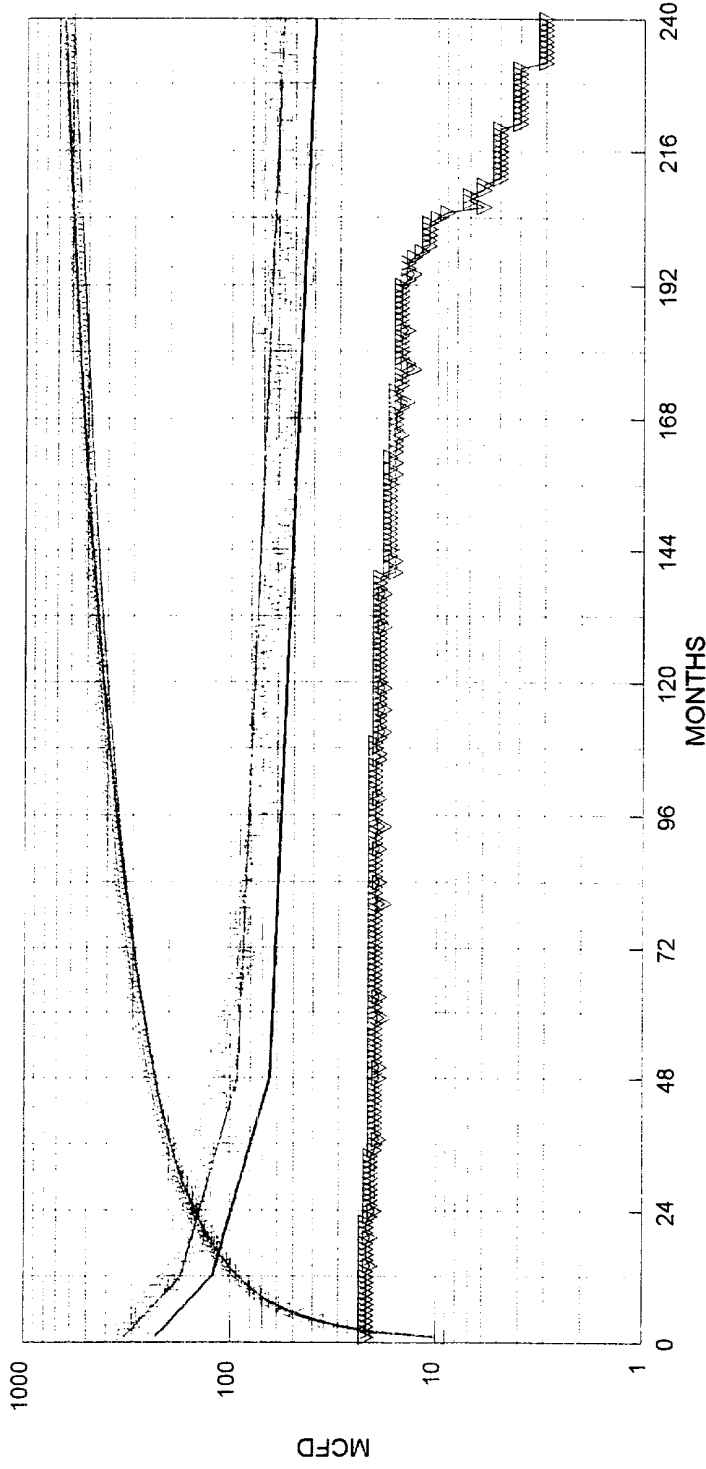


— FIT MCFD      NORMALIZED MCFD      NORM CUM MMCF  
 ▴ WELLS ON PRODUCTION      — FIT CUM MMCF      — RISKED MCFD

Expected MV Prod - #98M, 100M, 101M, 110M, 111M, 113M, 153E  
 Expected 1st Yr. Avg. Rate = 144MCFD Wells are expected to follow "50% risk case"

NORMALIZED AVG:		RISKED AVG:	
1130 MMCF EUR	400 MCFD IP	453 MMCF EUR	200 MCFD IP
800 MMCF IN 20 YRS	50% DECLINE, 1ST 12 MONTHS	400 MMCF IN 20 YRS	50.0% DECLINE, 1ST 12 MONTHS
25 MCFD E.L.	13% DECLINE, NEXT 48 MONTHS	25 MCFD E.L.	13.0% DECLINE, NEXT 48 MONTHS
0.0091 bbl/mcf oil yield	4% FINAL DECLINE	0.0091 bbl/mcf oil yield	4.0% FINAL DECLINE

**NORMALIZED DAKOTA PRODUCTION**  
**PROD. SINCE 1975; 22 DAKOTA COMPLETIONS**



— FIT MCFD      NORMALIZED MCFD      NORM CUM MMCF  
 ▽ WELLS ON PRODUCTION      FIT CUM MMCF      — RISKED MCFD

Expected DK Prod - #98M, 100M, 101M, 110M, 111M, 113M, 153E  
 Expected 1st Yr. Avg. Rate = 252 MCFD Wells expected to follow "Normalized case"

NORMALIZED AVG:	
1049 MMCF EUR	
666 MMCF IN 20 YRS	
25 MCFD E.L.	
0.0134 bbl/mcf oil yield	

350 MCFD IP	
50% DECLINE, 1ST 12 MONTHS	
19% DECLINE, NEXT 36 MONTHS	
3% FINAL DECLINE	

RISKED AVG:		30% RISK
644 MMCF EUR	245 MCFD IP	
466 MMCF IN 20 YRS	50.0% DECLINE, 1ST 12 MONTHS	
25 MCFD E.L.	19.0% DECLINE, NEXT 36 MONTHS	
0.0134 bbl/mcf oil yield	3.0% FINAL DECLINE	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0136  
Expires February 28, 1995

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1. TYPE OF WORK  
a. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐  
b. TYPE OF WELL  
DRILL ☒ DEEPEN ☐  
2. NAME OF OPERATOR  
Conoco Inc. 005073  
3. ADDRESS AND TELEPHONE NO  
10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 830' FSL & 870' FEL  
At proposed prod. zone 830' FSL & 870' FEL  
5. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
6653' GR  
6. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if Any)  
7. NO. OF ACRES ASSIGNED TO THIS WELL  
4/320  
8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
7467'  
9. PROPOSED DEPTH  
7467'  
10. ROTARY OR CABLE TOOLS  
Rotary  
11. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6653' GR  
12. APPROX. DATE WORK WILL START  
6/30/98  
13. LEASE DESIGNATION AND SERIAL NO  
NM 03560  
14. IF INDIAN, ALLOTTEE OR TRIBE NAME  
15. UNIT AGREEMENT NAME  
San Juan 28-7  
16. FARM OR LEASE NAME WELL NO  
100M  
17. API WELL NO  
30-039-25881  
18. FIELD AND POOL, OR WILDCAT  
Blanco MV/Basin Dakota  
19. SEC. T. R. M. OR BLK. AND SURVEYOR AREA  
Sec.30, T27N, R7W  
20. COUNTY OR PARISH  
Rio Arriba  
21. STATE  
NM  
22. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	K-55, 9-5/8"	36#	250'	145 sxs, circ.
8-3/4"	K-55, 7"	23#	3180'	390 sxs, circ.
6-1/4"	K-55, 4-1/2"	9.5#	7467'	515 sxs, toc @ 3000'

It is proposed to drill a vertical wellbore to the Blanco Mesaverde and Basin Dakota Pools. An NOS was filed 10/13/97. The well will be drilled and equipped according to the following additional attachments:

- Well Location & Acreage Dedication Plat (C-102).
- Proposed Well Plan Outline.
- Cementing Plan.
- Blowout Preventer Hookup.
- Surface Use Plan with Production Facility layout.
- Pipeline Tie Specifications with plat.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

This application includes ROW's for the well pad, cathodic protection and pipeline.

RECEIVED  
BLM  
98 JUN -8 AM 11:23  
070 FARMINGTON, NM

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Jo Ann Johnson TITLE Sr. Property Analyst DATE 5-28-98  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE JUN 10 1998

Application approval does not warrant or certify that 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:

APPROVED BY Carol G. Becker TITLE Patricia J. Jorgensen DATE JUN 10 1998

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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 a matter within its jurisdiction.

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

API Number		2 Pool Code	3 Pool Name
		72319/71599	Blanco Mesaverde/Basin Dakota
4 Property Code	5 Property Name		6 Well Number
016608	San Juan 28-7 Unit		100M
7 OGRID No.	8 Operator Name		9 Elevation
005073	Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500		6653'

## 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	=30	27N	7W		830'	South	870'	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/West line	County
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12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320	Y	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

16			
<p><b>RECEIVED</b>  JUL 2 1998  <b>OIL CON. DIV.</b>  <b>DIST. 3</b></p>			

**San Juan 28-7 Unit # 100 M**  
Section 30, T-27-N, R-7-W, P  
Rio Arriba , New Mexico  
API # 30-039-25881

RE: Application to Downhole Commingle (C 107 A)

**OFFSET OPERATORS:**

Burlington Resources  
PO Box 4289  
Farmington, NM 87499

Bledsoe Petroleum Corp.  
1717 Main STE 5850  
Dallas, TX 75201

Chateau Oil & Gas Inc.  
5950 Berkshire Ln STE 275  
Dallas, TX 75225

Lively Exploration Co.  
1300 Post Oak Blvd. # 1900  
Houston, TX 77056-3013

M & G Drilling  
PO Box 2406  
Farmington, NM 87499

Western Oil & Minerals LTD  
PO Drawer 1228  
Farmington, NM 87499