OATE IN 4	29/98	SUSPENSES/19/98 ENGINEER DC LOGGED BY M TYPE DHC									
•		ABOVE THIS LINE FOR DIVISION USE ONLY									
	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -										
	ADMINISTRATIVE APPLICATION COVERSHEET										
	THIS COVERSH	IEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS									
Applicatio	[PC-	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] ownhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]									
[1] <b>T</b>	YPE OF AI [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD									
	Check [B]	Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM									
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery									
[2] N	IOTIFICAT [A]	TON REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners									
	[B]	Offset Operators, Leaseholders or Surface Owner									
	[C]	Application is One Which Requires Published Legal Notice									
	[D]	U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office									
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,									
	[F]	U Waivers are Attached									
[3] I	INFORMAT	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding									

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

y Maddex

Regulatory Agent

Print or Type Name

Kay Maddox

Title

#### DISTRICT I

PO Box 1980, Hobbs, NM 88241 1980

SITRICT II 811 SouthI First St. Artesia NM 88210 2835

DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410 1693

# State of New Mexico Energy, Minerals and Natural Rasources Department OIL CONSERVATION DIVISION

Form C-107-A New 3-12-96

APPROVAL PROCESS:

## 2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Administrative Hearing EXISTING WELLBORE YES NO

Rio Arriba

X Yes No X Yes No No

## APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

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

Opera Section 12, T-25-N, R-5-W, A Jicarilla K # 16 E Well No lease

Spacing Unit Lease Types: (check 1 or more)

005073 Federal 🛛 , State 🔲 (and/or) Fee 🗌 OGRID NO. -Property Code API NO. intermediate Zone Lower Zone The following facts ate submitted in support of downhole comminging: Upper Zone 1. Pool Name and Pool Code Basin Dakota Blanco Mesaverde <u>71599</u> 72319 2. TOP and Bottom of Pay Section (Perforations) 7257-7487' 5229-5590' 3. Type of production (Oil or Gas) Gas Gas 4. Method of Production {Flowing or Artificial Lilt} To Flow To Flow a a. 5. Bottomhole Pressure a (Current) Oil Zones - Artilicial Lift: Estimated Current 950 562 Gas & Oil - Flowing: Measured Current b(Original) b. b. All Gas Zones: Estimated Or Measured Original 1321 2810 Oil Gravity (°API) or Gas BT Content 1248 1260 7. Producing or Shut-In? To be Completed To be Completed Yes (expected) Production Marginal? (yes or no) Yes (expected) Date Date Date If Shut-In give date and oil/gas/ water rates of Isst production Rates Rates Rates Note For new zones with no production hIStorv appilcant shad be required to attach production estimates and supporting dara water rates of recent test (within 60 days) Anticipated 1st Yr Anticipated 1st Yr Dale Dale Date If Producing, Average Average Rates Rates Rates 126 MCFD, 3, 5 BOPD 221 MCFD, 3.3 BOPD 8. Fixed Percentage Allocation Formula -% or each zone oit Gas Gas Oil Gas oil % % % % % %

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? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling?

No If yes, are fluids compatible, will the formations not be damaged, will any cross-11. Will cross-flow occur? X Yes flowed production be recovered, and will the allocation formula be reliable. X Yes \_\_\_ No (If No, attach explanation)

ORDER NO(S).

X Yes No 12. Are all produced fluids from all commingled zones compatible with each others

13. Will the value of production be decreased by commingling? \_Yes <u>×</u>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. X Yes No

15. NMOCD Reference Cases for Rule 303(D) Exceptions:

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.

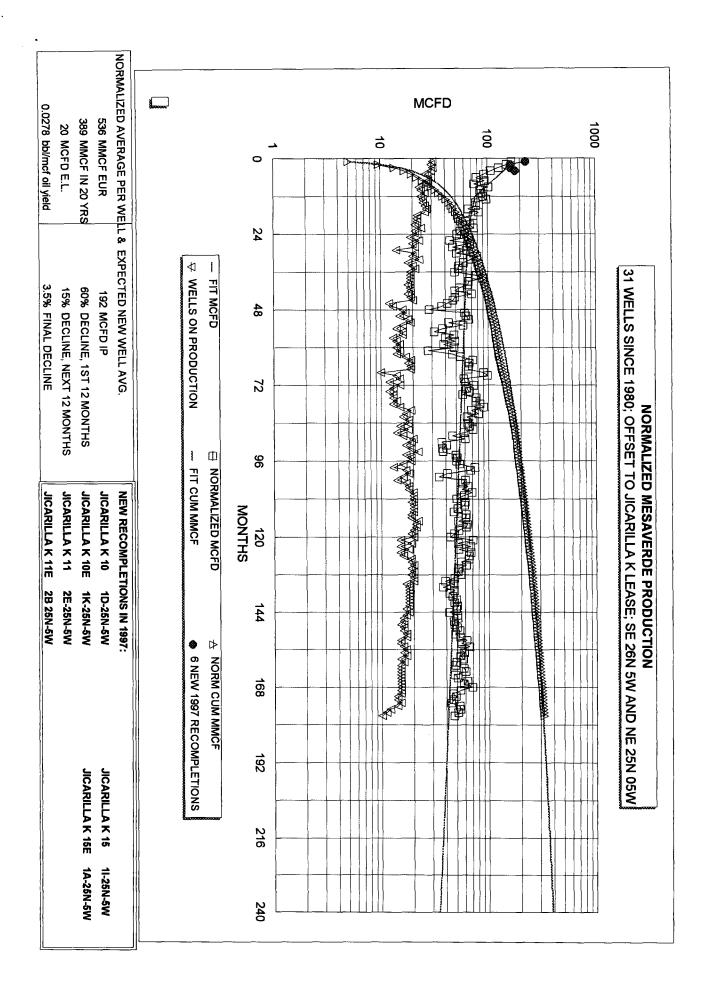
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Trup Middler	TITLE _	Regulatory Agent	DATE	4/24/98
TYPE OR PRINT NAME Kay Maddox		TELEPHONE NO.	(915)	686-5798

### APPLICATION FOR DOWNHOLE COMMINGLING Jicarilla K 16E, Unit Letter A, Section 12-T25N-R5W Rio Arriba County, New Mexico

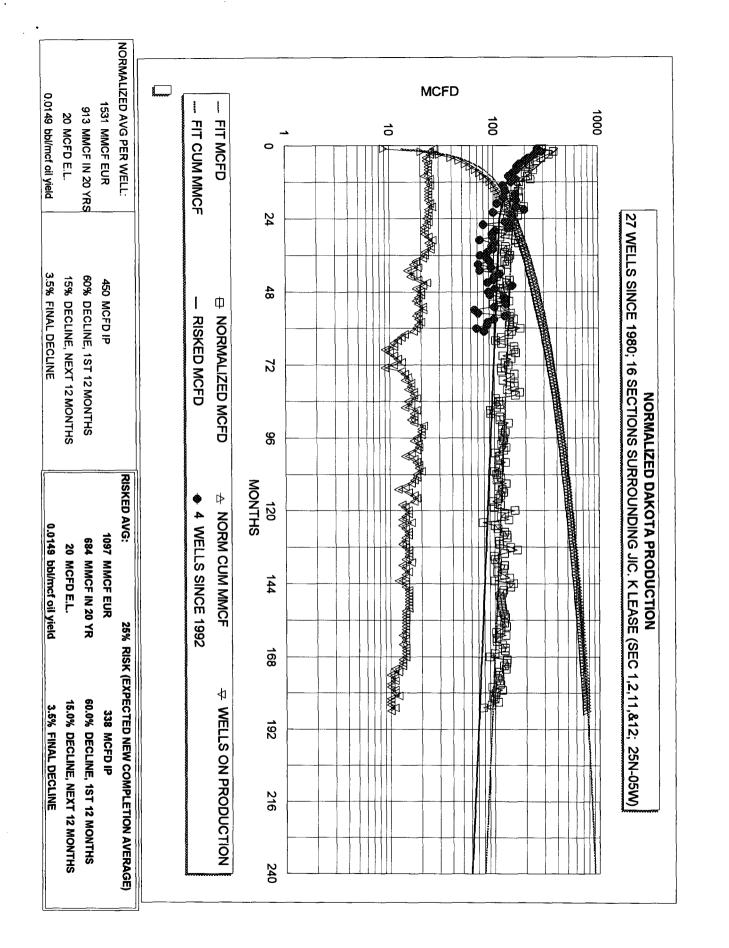
As shown in the attached production plot for offsets to the Jicarilla K 16E, estimated ultimate recoveries and initial production rates from infill wells to the Dakota and Mesaverde formations are clearly marginal in this area. Mesaverde estimated recoveries in particular do not justify drilling stand alone wells (389 MMCF recovery in 20 years, 536 MMCF ultimate recovery). Futhermore, production plots from each zone indicate a similar decline profile and a fixed allocation formula can be utilized. Upon completion, both zones will be tested and stabilized flow rates will be used to allocate production from each zone. This procedure is common practice in Conoco's 28-7 Unit and reference is made to Order R-10476-B as it applies to downhole commingling of marginal zones and the allocation of production between such zones.

04/20/98 10:55 AM 1 25-5MVN.WK4 \



PREPARED BY: PDB

04/20/98 11:24 AM 1 255DKN2.WK4 \



PREPARED BY: PDB

1 am 1au 1			``	Other in strue		FORM APPR			
ang		EDSTATES		reverse s	die j	OMB NO. 1004-0136 Expires February 28, 1995			
· •	DEPARTMEN	T OF THE IN		Г	S LEASE DSIGNATION AND SERIAL N				
•	BUREAU OF	LAND MANAGE	MENT			CONT 145			
APPLIC	6 IF INDIAN, ALLOTTEE OR TRIBE NAME								
Ta. TYPE OF WORK	JICARILLA								
	.u 🛛	DEEPEN 🗌				7 UNIT AGRREEMENT NA	ME		
DIL GAS			areote 📘		·· [] -	8. FARM OR LEASE NAME WELL	NO.		
2. NAME OF OPERATOR	LL OTHER	<u></u>	LONE	ZONE		JICARILLA			
	noco Inc.				ł	9. APIWELL NO	X#10E		
a. ADDRESS AND TELEPHONE NO	·····								
10 Desta D	r. Ste 430E, Midland	d, Tx. 79705-450	0	915-686-579	4	10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL At surface	(Report location clearly a		• •	irem ents •)		Blanco MV/Basin Dakota/Otero			
AUJUILLOU		1190' FNL &	1060' FEL		ſ	11. SEC, T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zone						AND JURVET OR ARE			
	1190' FNL & 1060' FEL								
14. DISTANCE IN MILES AN	D DIRECTION FROM NEA	EST TOWN OR POST	OFICE.			12 COUNTY OR PARISH	13. STATE		
					<u>}</u>	Rio Arriba	NM		
5. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI	ED.		16 NO OF ACRES IN LEASE 17. NO. C TO 1			F ACRES ASSIGNED HIS WELL			
(Also to nearest drig	, unit line, if Any)					320/320/160			
8. DISTANCE FROM PROPO TO NEAREST WELL, DRI		1	9. PROPOSED DEPTH 20. ROTA			ARY OR CABLE TOOLS			
OR APPLIED FOR, ON THIS	LEASE, FT,		77	87'		Rotary			
21. ELEVATIONS (Show whe	22. APPROX. DATE WORK WILL START*								
		4/15/98							
23		PROPOSED CASING	AND CEMEN	TING PROGRA	м				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	T SET	TING DEPTH		QUANTITY OF CEMENT			
11"	K-55, 8-5/8"	24#		300'		130 sxs, circ.			
7-7/8"	K-55, 5-1/2"	15.5#		7487'		1080 sxs,circ.			

It is proposed to drill verical wellbore to be downhole commingled in the Blanco Mesaverde, Basin Dakota and Otero Chacra Pools following the acquisition of sufficient production test data for allocation purposes. A downhole commingling application will be filed with the BLM and NMOCD prior to commingling. A NOS was filed 10/31/97. This well will drilled and equipped according to the following attachments:

1. Well Location & Acerage Dedication Plat (C-102) and other associated plats.

2. Proposed Well Plan Outline.

3. Cementing Plan.

4. Blowout Preventer Hookup.

5. Surface Use Plan with Production Facility Layout.

6. Pipeline survey plat.

This application includes ROW's for the wellpad and access road.

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.	. 1.1		Mike L. Mankin			
SIGNED	Tille	1 Mienter	Right-of-Way Agent	DATE	March 4, 1998	
						-

(This space for Federal or State office use)

PERMIT NO

APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those righs in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

\_ TITLE \_\_\_\_\_

DATE \_\_\_

## \*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 to any matter within its jurisdiction.

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(9) an awers (30) Autoropole, 194 (393211) (07-113) *	CIL CONSERVATION DIVERT	State Leader 4 Copies State Leader 3 Copies
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		🖂 AMENDED REECAM

- ) preset - 17 Ro-Bok - 3998, Carlta Ro, 144, **97504 -2088** 

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# WELL LOCATION AND ACREAGE DEDIDATION PLAT

AP[ : Nimoer					*Pool Cod	le				PCOL Nam	9		Otero		
-				723	72319/71599/82329 Blanco Mesav					verd/Basin Dakota/Chacra					
	'Property Code 'Property Name JICARILLA K												Well Number		
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L	00507	3						<u> </u>		······					
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Jicarilla K # 16E Section 12, T-25-N, R-5-W, A Rio Arriba, New Mexico

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e \*

RE: Downhole Commingle C107A Application

## **Notification of Offset Operators:**

Amoco, Inc. PO Box 800 Denver, CO 80201

Burlington Resources PO Box 4289 Farmington, NM 87499

A copy of the C-107A has been sent to the above listed party/parties.