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 COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS							
Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-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] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]							
[1] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling [A] NSL INSL NSP [A] SD							
Check One Only for [B] and [C]							
[B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM							
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery							
 [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] D Working, Royalty or Overriding Royalty Interest Owners 							
[B] I Offset Operators, Leaseholders or Surface Owner							
[C] Application is One Which Requires Published Legal Notice							
[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office							
[E] \Box For all of the above, Proof of Notification or Publication is Attached, and/or,							
[F] Uwaivers are Attached							

[3] INFORMATION / 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.

Kay Maddox Print or Type Name

14 Maddex Title

Regulatory Agent

1 24 | 98

DISTRICT I

PO Box 1980, Hobbs, NM 88241 1980

BITRICT 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

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

APPROVAL PROCESS: Administrative Hearing EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

YES NO

Conoco Inc. Operato

Jicarilla K

Lease

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

Section 11, T-25-N, R-5-W, L Unit Lir Sec Twp Rge Rio Arriba

Cou

Spacing Unit Lease Types: (check 1 or more) 005073 Property Code Federal 🕅 , State 🔲 (and/or) Fee 🗌 18023 API NO. OGRID NO. -

#13 E

Well No

The following facts ate submitted in support of downhole commingilng:	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)	5247-5608'		7242-7472'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production {Flowing or Artificial Lilt}	To Flow		To Flow
5. Bottomhole Pressure Oil Zones - Artilicial Lift: Estimated Current	a (Current) 562	a.	a. 950
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b(Original) 1322	b.	b. 2809
6. Oil Gravity (°API) or Gas BT Content	1260		1248
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 lsst production Note For new zones with no production hiStory applicant shad be required to attach production	Date Rates	Date Rates:	Date Rates
estimates and supporting dara • If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Dale Anticipated 1st Yr Rates average 126 MCFD, 3.5 BOPD	Dale Rates	Date Anticipated 1st Yr Rates Average 221 MCFD, 3.3 BOPD
8. Fixed Percentage Allocation Formula -% or each zone	oil: Gas % %	oil: Gas % %	oii: 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? 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? $\frac{X}{X} \frac{Yes}{Yes} - \frac{No}{No} \frac{No}{No}$

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

_Yes <u>×</u>No

ORDER NO(S).

(If Yes, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each others <u>X</u> Yes ___ No

13. Will the value of production be decreased by commingling?

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 jaformation above is true and complete to the best of my knowledge and belief.

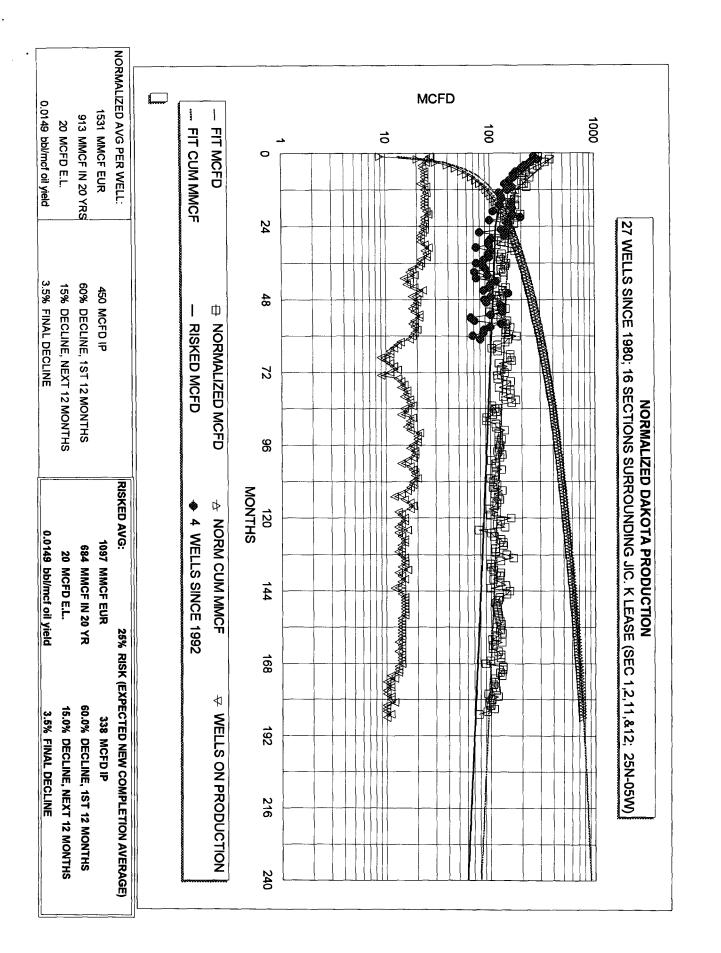
SIGNATURE KAN Maddax	TITLE Regulatory Agen	DATE	4-24-98
TYPE OR PRINT NAME Kay Maddox	TELEPHONE N	D. <u>(915)</u>	686-5798

NORMALIZED AVERAGE PER WELL & EXPECTED NEW WELL AVG \square MCFD 0.0278 bbl/mcf oil yield 536 MMCF EUR 389 MMCF IN 20 YRS 1000 20 MCFD E.L. 100 10 0 24 - FIT MCFD 31 WELLS SINCE 1980; OFFSET TO JICARILLA K LEASE; SE 26N 5W AND NE 25N 05W 3.5% FINAL DECLINE 60% DECLINE, 1ST 12 MONTHS 15% DECLINE, NEXT 12 MONTHS 192 MCFD IP 48 72 NORMALIZED MESAVERDE PRODUCTION 郾 ł 96 FIT CUM MMCF **NEW RECOMPLETIONS IN 1997: JICARILLA K 10E JICARILLA K 10 JICARILLA K 11 JICARILLA K 11E** MONTHS 120 Construction of the second AND ADDRESS AND ADDRESS 1K-25N-5W 2B 25N-5W 2E-25N-5W 1D-25N-5W 144 6 NEW 1997 RECOMPLETIONS 168 192 JICARILLA K 15E 1A-25N-5W **JICARILLA K 15** 216 11-25N-5W 240

PREPARED BY: PDB

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

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



PREPARED BY: PDB

APPLICATION FOR DOWNHOLE COMMINGLING Jicarilla K 13E, Unit Letter L, Section 11-T25N-R5W Rio Arriba County, New Mexico

As shown in the attached production plot for offsets to the Jicarilla K 13E, 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.

(sam stots) Salas ineste		ED STATES		(Other instruct reverse si		FORM APPR OMB NO. 100 Expires February	4-0136	
	DEPARTMEN	T OF THE IN	TERIOF	२	ſ	5 LEASE DSIGNATION A	ND SERIAL NO	
BUREAU OF LAND MANAGEMENT					CONT 145			
APPI	ICATION FOR PE		RILL OF			6 IF INDIAN, ALLOTTEE C	OR TRIBE NAME	
						JICARILI	_A	
DR	art 🛛	DEEPEN]		ĺ	7 UNIT AGRREEMENT NA	ME	
DIT CHE OF WELL	SAS WELL OTHER		MINGLE			8 FARM OR LEASE NAME WELL	NO.	
2 NAME OF OPERATOR	WELL OTHER		ZONE	ZONE	╾╌┶╍└╌╌╽			
	Conoco Inc.					JICARILLA E	C#13E	
1. ADDRESS AND TELEPHONE NO)		<u> </u>			An well no		
10 Desta	Dr. Ste 430E, Midlan	d Tx 79705-450	00		ł	10. FIELD AND POOL, OR	WILDCAT	
4 LOCATION OF WEL	L (Report location clearly a			requirements *)		Blanco MV/Basin Dakota		
At surface		1450' FSL &	940' FWI			11. SEC, T., R., M., OR BLK.		
At proposed prod. zo						AND SURVEY OR AREA Sec 11, T25N, R5W		
At proposed prod. 20		1450' FSL &	: 940' FWI			500 H, 125N	, 1() **	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	EST TOWN OR POST	OFICE*			12 COUNTY OR PARISH	13. STATE	
						Rio Arriba	NM	
5. DISTANCE FROM PROP			16 NO OF A	CRES IN LEASE	17. NO. OF	ACRES ASSIGNED		
LOCATION TO NEARE PROPERTY OR LEASE (Also to nearest du	LINE, FT. rlg. unit line, if Any)					319.5		
8. DISTANCE FROM PROPOSED LOCATION*			19. PROPOSE	D DEPTH	20. ROTARY OR CABLE TOOLS			
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT,			772		Rotary			
21. ELEVATIONS (Show W	hether DF, RT, GR, etc)			· /		22. APPROX. DATE WOR	RK WILL START*	
6766' GR					3/31/9	8		
23		PROPOSED CASING	G AND CEM	ENTING PROGRAM	1			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	т	SETTING DEPTH	1	QUANTITY OF CEMENT		
11"	K-55,8-5/8"	24#		300'	1	130 sxs, circ.		
7-7/8"	K-55, 5-1/2"	15.5#		7472'		1085 sxs, circ.		
					1			

It is proposed to drill a vertical wellbore to be downhole commingled in the Blanco Mesaverde and Basin Dakota 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. An NOS was filed 10/31/97. The well will be drilled and equipped according to the following additional attachments:

1. Well Location & Acreage 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 well pad 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. Mike L. Mankin 14 **Right of Way Agent** 3/9/98 SIGNED TTT1 8 DATE (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: TITLE APPROVED BY 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.

Apple	518, NM 88211-0 1, Azton, NM 87 1 P9, NM 87604- 1	07 (3 4 10 2088	orray. OIL C Sant	ONSERVAT PO Box a Fe, NM	IDN DIVISI	Giunan co Dh B	Instru Appropriate D State Lea Fee Lea (AMEND	ionm (1-10) nuany 21, 1994 ctions an back histmict Office use - 4 Copies use - 3 Copies ED REPCAT
		723	19/7159		Blanco Mes	averde/Ba		
'Property Code 18023 'OGRID No.				Property JICARIL	LA K		*Well Number 13E	
005073				[•] Operator CONOCO,	INC.			Elevation 6766
	·		10		Location			
L on lot no. Sect		Pange 5W	Lot Idn	Feet from the 1450	North/South line	Feet from the 940	East/West line	RIO ARRIBA
U, or lot no. Sec	11 E	Bottom Range	Hole Lo	Feet from the	f Different North/South line	From Sur	East/West line	County
¹² Jedicated Acres 319.5	¹³ Joint or In	fill ¹⁴ Cons	olidation Code	¹⁵ Orden No.				
. 00 . 0825 940 ' o						Mike Sighatur Mike Printed Righ Title Date 00 00 00 00 00 00 00 00 00 00 00 00 00	L. Mankir Name t-of-Way A 3-3-2V /EYOR CERT rolly that the well loca from field notes of act supervision and that to the best of my belief.	IFICATION IFICATION sources made sy me same is true and
		52	270.75'			Centific	Survey Seal of CoreEDU MEA Cale MEA Cale MEA Cale MEA Cale MEA Cale MEA Cale MEA Cale MEA Cale MEA Cale Core EDU	HOHO

Jicarilla K # 13E Section 11, T-25-N, R-5-W, L Rio Arriba, New Mexico

RE: Downhole Commingle C107A Application

Notification of Offset Operators:

Amoco, Inc. PO Box 800 Denver, CO 80201

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