OATE IN 4/29/98 SUSPENSE 5/19/98 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 DD 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] 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] 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] Univers 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.

Maddex

Regulatory Agent

124

Kay Maddox Print or Type Name

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 Administrative Hearing

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE YES NO

Conoco Inc. Opera

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500 6.2.2

Section 12, T-25-N, R-5-W, A Rio Arriba #16E Jicarilla K Unit Ltr Sec Twp Rge Well No Lease Spacing Unit Lease Types: (check 1 or more) Federal 🛛 , State 🔲 (and/or) Fee 🔛 005073 API NO. Property Code

OGRID NO. Lower Zone The following facts ate submitted in support of downhole commingilng: intermediate Zone Upper Zone Basin Dakota Blanco Mesaverde 1. Pool Name and Pool Code 71599 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 5. Bottomhole Pressure a. a (Current) Oil Zones - Artilicial Lift: Estimated Current 950 562 Gas & Oil - Flowing: Measured Current b(Original) b. h All Gas Zones: Estimated Or Measured Original 2810 1321 6. Oil Gravity (°API) ol 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 Date Date Date Rates Rates Rates Nole For new zones with no production hIStorv appilcant shad be required to atlach production estimates and supporting dara Anticipated 1st Yr Anticipated 1st Yr water rates of recent test (within 60 Date If Producing, Dale Dale Average Average Rates Rates Rates (within 60 days) 126 MCFD, 3.5 BOPD 221 MCFD, 3.3 BOPD 8. Fixed Percentage Allocation Formula -% or each zone oil Gas oil: Gas Oil Gas % % % % % %

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?	x Yes	No
If not, have all working, overriding, and royalty interests been notified by certified mail?	Yes	
Have all offset operators been given written notice of the proposed downhole commingling?	T Yes	

11.	Will cross-flow occur?	X Yes	s No	If yes, are fluids compatible	, will the formations	not be damaged, will any	y cross-
	flowed production be	recovered	, and will	the allocation formula be rel	iable. X Yes	No (If No, attach expla	

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? Vaa X No /If Vac attach a

13.	Will the value of	production be decreas	ed 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 C	ommission	or of Public Lands or the

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 the ORDER NO(S).

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 ell effect ensemble.

- 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	Tay Muddox	Regulatory Agent	DATE	4/24/98
TYPE OR PRINT NAME_	Kay Maddox	 TELEPHONE NO.	(915)	686-5798

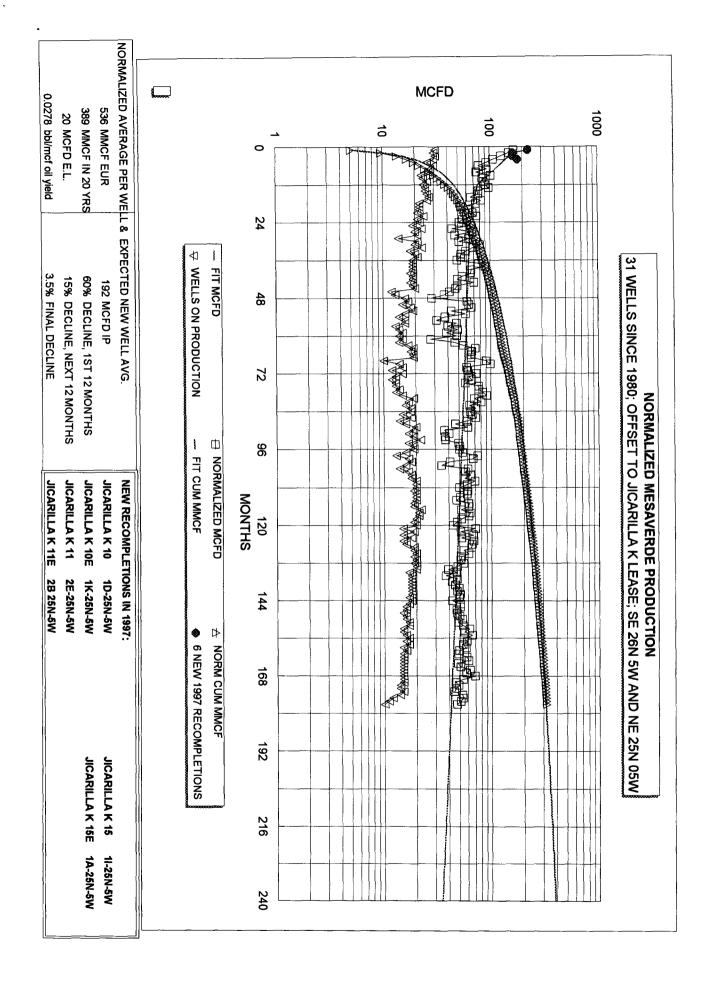
APPLICATION FOR DOWNHOLE COMMINGLING

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.

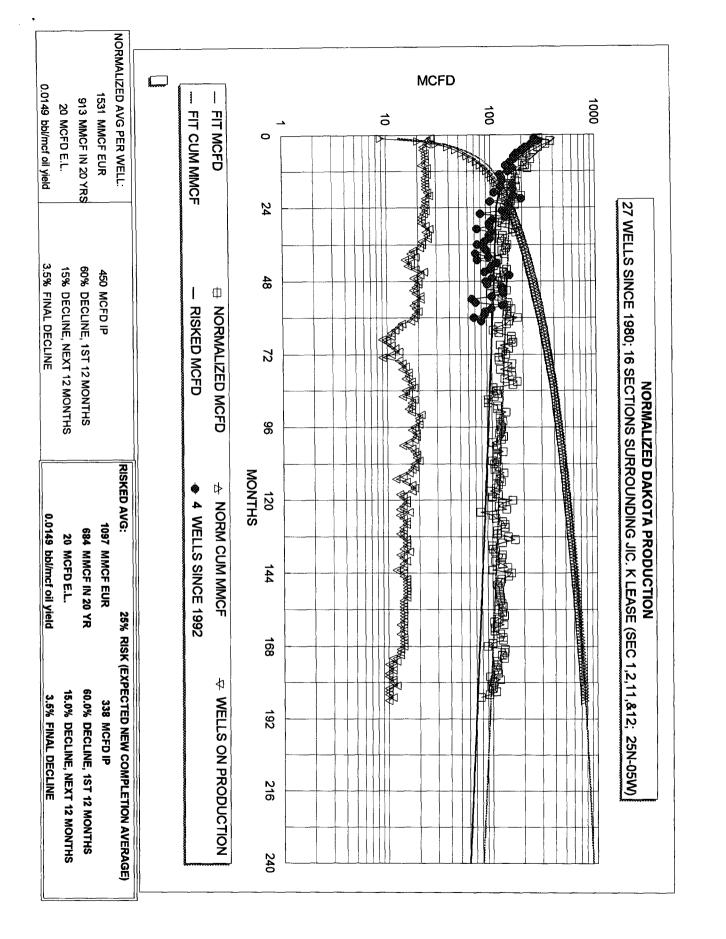
PREPARED BY: PDB

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



PREPARED BY: PDB

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



lorm (no) (UNIT	ED STATES	(O ther in struct reverse and	194.1.54	FORM APPR OMB NO. 100 Expires February	4-0136
•	DEPARTMEN	T OF THE INTER	RIOR	Г	S LEASE DSIGNATION A	
•		LAND MANAGEME			CONT 14	
	ICATION FOR PE		OR DEEPEN		6 IF INDIAN, ALLOTTEE	OR TRIBE NAME
					JICARILI	LA
DB	ull 🛛	DEEPEN 🗌		[7 UNIT AGRREEMENT NA	ME
DIL OIL	GAS WELL OTHER			·	8 FARM OR LEASE NAME WELL	L NO
2. NAME OF OPERATOR	WELL CY OTHER				JICARILLA I	
	Conoco Inc.			- F	9. APIWELL NO	
a. ADDRESS AND TELEPHONE N	0					
10 Desta	Dr. Ste 430E, Midlan	d, Tx. 79705-4500	915-686-5794	. ۲	10. FIELD AND POOL, OR	WILDCAT
4 LOCATION OF WEI At surface	L (Report location clearly a	nd in accordance with any	State requirements *)		Blanco MV/Basin I	Dakota/Otero
ATSUITACE		1190' FNL & 106	0' FEL	1	11. SEC, T., R., M., OR BI AND SURVEY OR ARE	
At proposed prod. zo	ne				AND SURVET OR ARE	2.4
		1190' FNL & 106			Sec. 12. T25N	. <u>R5W</u>
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	EST TOWN OR POST OFIC	E*		12 COUNTY OR PARISH	13. STATE
	<u></u>				Rio Arriba	<u>NM</u>
5. DISTANCE FROM PROI LOCATION TO NEARE	ST	16 N C) OF ACRES IN LEASE		ACRES ASSIGNED IS WELL	
PROPERTY OR LEASI (Also to nearest d	ELINE, FT. rlg. unit line, if Any)				320/320/160	
8. DISTANCE FROM PRO TO NEAREST WELL, 1	DRILLING, COMPLETED,	19. PR	OPOSED DEPTH	20. ROTAR	Y OR CABLE TOOLS	
OR APPLIED FOR, ON T			7787'	<u> </u>	Rotary	
21. ELEVATIONS (Show W	hether DF, RT, GR, etc)				22. APPROX. DATE WO	
		6693' GR			4/15/9	8
2 3		PROPOSED CASING AN	D CEMENTING PROGRAM	ſ		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	т
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.

SIGNED Tilles I Thiere the	Mike L. Mankin TITLE Right-of-Way Agent	DATE	March 4, 1998
(This space for Federal or State office use)			<u> </u>
PERMIT NO	APPROVAL DATE		
	nt holds legal or equitable title to those righs in the subject lease whether the subject lease wh	ich would entitle the applic	ant to conduct operation
CONDITIONS OF APPROVAL, IF ANY:			

United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

•	алариан бармана какака та ображани со сос	n an
но страни (1) 1907 годинест (0), Акстрора, 1947 (98211) (07.19 1	DIL CONSERVATION DIVIDIU PO Box 2088	Roman na Appropriare Clorensir Orfice State Leader 4 Copjes Fed Leader 3 Copjes
postoriusti (111) postoriusti (111) postoriusti (111) postoriusti (111)	Banta <u>Fe_NM-9750</u> 4-2088	TT AMENDED MERCAN
) (thrait 17 Pr) Bek (1998, Canta R. 14 4 (17504 -2088)		

÷

WELL	LOCATION	AND	ACREAGE	GEDICATEON	5177L

1	PE Humber	~		*Pool Coc	te		Pcol Mam	9	Otero
•	<u></u>		723	19/715	99/82329 Property		esaverd/Ba	asin Dakot	a/Chacra
Property	Code				JICARIL			NC NC	16E
OGAID N	10.			levation					
005073	3				CO			56931	
·····					¹⁰ Sur face				
	Section	10005110 25N	Range 5W	Lat Ion	Feet from the 1190	North/South line	Feet from the	East/West line East	County RIO
			Bottom	Hole L	_ocation I	f Different	From Surf	l	ARRIBA
UL on lat no.	Sect 100	Township	Range	Lat Ion	Feet from the	North/South line	Faet from the	East/West line	County
¹² Dedicated Acres	/160	13 Joint or In	ifill ³⁴ Cons	alidation Code	a ¹³ Order No.	L	<u> </u>	<u>L</u> _	<u>.</u>
			52				L Pereby ceri rue and com Bigratur Bigratur Mike Printed Righ Fitle O Date O Date O Date O Date of Signature and A	L Mankir Name t-of-Way A 3-GY EYOR CERTI tify that the well locat from field notes of actu supervision and that the best of my belief. EMBER, 19, Survey	A contained herein is knowledge and belief
			52	266.80			Cent 1 f 1 d	A C CAS	3

Jicarilla K # 16E Section 12, T-25-N, R-5-W, A Rio Arriba, New Mexico

• * * * * *

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.