	and the second	~,				
DATE IN 6/20/97	SUSPENSE 7/10/97				W	THE DHC
· / ·		ABOVE THIS LINE FOR DIV	ASION USE ONLY			······
	NEW MEXICO		ERVATI	ON DIVIS	SION	
						JUN 2 0 1997
	ADMINISTRATIN				·····	11 12
Application Acronyms		NISTRATIVE AFFLICAT	TONS FOR EAC	CPTIONS TO DIVI		CONSERVATION DIV
(DHC-Do (PC	[NSP-Non-Standard F	l Drilling] [SD- [CTB-Lease Con [S - Off-Lease St nsion] [PMX-P Disposal] [IPI-]	-Simultane nmingling] torage] (Pressure M Injection P	ous Dedicat [PLC-Poo [OLM-Off-Le: laintenance Pressure Inc	tion] bl/Lease Col ase Measur Expansion] trease]	ement]
[1] TYPE OF A	PPLICATION - Chec	k Those Which	h Anniv	for [A]		(
[1] 111E OF A [A]	Location - Spacing U	Init - Direction				16A
	k One Only for [B] and					
[B]	Commingling - Stora	•	ment	OLS	OLM	
[C]	Injection - Disposal -	Pressure Incre	ease - Enl	hanced Oil	Recovery	
[2] NOTIFICA [A]	TION REQUIRED TO					Not Apply
[B]	Offset Operators, 1	Leaseholders c	or Surface	e Owner		
[C]	Application is One	e Which Requi	ires Publi	ished Legal	l Notice	
[D]	U.S. Bureau of Land Mana			•		
[E]	G For all of the abov	e, Proof of No	otification	or Publica	ation is Att	ached, and/or,
[F]	U Waivers are Attacl	hed				

[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.

Jerry W. Hoover our Sr. Conservation Coordinator 6-13-97 Print or Type Name Sugnature Title Date

DISTRICT I

DISTRICT II

DISTRICT III

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P.O. Box 1980, Hobbs, NM 88241-1980

811 South First St., Artesia, NM 88210-2835

1000 Rio Brazos Rd., Aztec, NM 87410-1693

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

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

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.	10	Desta Dr., Ste 100W, Midland	, TX 79705-4500			
Jicarilla K	16	s D-12-T-25N-R5W	Rio Arriba			
OGRID NO. 005073 Property Cod	10000		Jnit Lease Types: (check 1 or more)			
The following facts are submitted in support of downhole commingilng:	Upper Zone	Intermediate Zone	Lower Zone			
1. Pool Name and Pool Code	Otero Chacra 82329	Blanco Mesa Verde 72319	Basin Dakota 71599			
2. TOP and Bottom of Pay Section (Perforations)	4202' - 4230'	Proposed 5341' - 5701'	Current 7512' - 7710'			
3. Type of production (Oil or Gas)	Gas	Gas	Gas			
4. Method of Production (Flowing or Artificial Litt)	Flowing	To Flow	Flowing			
5. Bottom hole Pressure Oil Zones - Artificial Lift: Estimated Current	a (Current) 494 PSIA	a. 1133 PSIA	a. 829 PSIA			
Gas & Oil - Flowing: Measured Current	b (Original)	b.	Ь.			
All Gas Zones: Estimated Or Measured Original	967 PSIA	1133 PSIA	2792 PSIA			
6. Oil Gravity (°API) or Gas BTU Content	1258 - BTU	1265 - BTU	1280 - BTU			
7. Producing or Shut-In?	Producing	To Be Completed	Producing			
Production Marginal? (yes or no)	Yes	Expected To Be	Yes			
 If Shut-In give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production 	Date Split Chacra & Dakota Rates by percentages below after subtraction	Date Rates:	 Date Split Chacra & Dakota Rates by percentages below after subtraction 			
estimates and supporting data. • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date Rates	Date Incremental Production Rates by subtraction see attached sheet	Date Rates			
8. Fixed Percentage Allocation Formula -% for each zone	Oil Gas % 16 %	OH Gas % %	Cill Gas 100 % 84 %			
 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. Are all working, overriding, and rovalty interests identical in all commingled zones? 						
 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? Yes No No Have all offset operators been given written notice of the proposed downhole commingling? 11. Will cross-flow occur? X Yes No If yes, are fluids compatible, will the formations not be damaged, will any cross 						
11. Will cross-flow occur? X Y flowed production be recovered	es <u>No If yes, are fluids co</u> ed, and will the allocation formu	mpatible, will the formations no Ila be reliable. X Yes I	ot be damaged, will any cross- No (If No, attach explanation)			
12. Are all produced fluids from a	Il commingled zones compatibl	e with each others X Y	es No			
13. Will the value of production be	e decreased by commingling?	Yes \underline{X} No (If Ye	s, attach explanation)			
14. If this well is on, or communit United States Bureau of Land	ized with, state or federal lands I Management has been notifie	s, either the Commissioner of F d in writing of this application.	² ublic Lands or the <u>X</u> Yes No			
15. NMOCD Reference Cases for	Rule 303(D) Exceptions:	ORDER NO(S).				
 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 informatic	on above is true and complete	to the best of my knowledge ar	nd belief.			
	Hoor	TITLE Sr. Conservation Coor	<u>d.</u> date <u>6/13/97</u>			
TYPE OR PRINT NAME JERY W.	Hoover	TELEPHONE NO.	(915) 686-6548			

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

		All distor	nces must be	from the a	ater baundai	ies of th e Sec t	tion		
Operator SOUTHE	RN UNION PRO	DUCTION CO	DAPANY	Leose	JICAR	ILLA "K"		Well No. 16	
Unit Letter	Section	Township		kong		County			
D	12	25	NORTH		5 WEST		RIO ARRIBA		·
Actual Factoge Las	cation of Well:								
960	feet from the	NORTH	line and		790	feet from the	WEST	line	
Ground Level Elev.	Producing	ormation		Pool				dicated Avereage:	
6990.0	D	AKOTA		8	ASIN DA	KOTA		/2 - 320	Acres

1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and dentify the ownership thereof (both as to working interest and royalty),

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by munitization, unitization, force-pooling, etc?

() Yes () No in If answer is "yes," type of consolidation

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedpooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

	360	JICA	RILLA	APACHE			
790		CONT	ract 🖉	145			
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	+ !	┣ 		+ 	┝ 	+ 	

SCALE-4 INCHES EQUALS 1 MILE

CERTIFICATION

I hereby certify that the information c herein is true and complete to the best of my knowledge and belief. ORIGINAL SIGNED BY B. R. VANDERSLICE Nome BILL VANDERSLICE Nome BILL VANDERSLICE Position AREA SUPER INTENDENT Compony SOUTHERN UN FON PRODUCTION Date SEPTENBER 21, 1971

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my s² -4 that the same is true and correct ² knowledge and belief.

16 Sentember.	1971	
Cate Surveyed	· hoose	
Professional Engin	neer E A	
JANES P. LEESE	=	
Certificate No.		







PREPARED BY: PDB

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JICARILLA K 16: CHACRA AND DAKOTA FORECAST FOR SUBTRACTION COMMINGLE WITH MESAVERDE 12D-25N-05W

DAKOT	CHACRA	TOTAL	DAKOTA	CHACRA		
OIL; BOPI	OIL; BOPD	MCFD	MCFD	MCFD	YEAR	
0.7	0.0	63	53	10	1997	(6-12/97 AVG)
0.1	0.0	61	52	9.6	1998	
0.0	0.0	59	50	9	1999	
0.0	0.0	57		9	2000	
0.0	0.0	54	46	8	2001	
0.0	0.0	52	44	8	2002	
0.	0.0	50	42	8	2003	
0.	0.0	48	41	8	2004	
0.	0.0	46	39	7	2005	
0.	0.0	44	37	7	2006	
0.	0.0	43	36	7	2007	
0.4	0.0	41	34	6	2008	
0.4	0.0	39	33	6	2009	
0.4	0.0	38	32	6	2010	
0.	0.0	36	30	6	2011	
0.	0.0	35	29	5	2012	
0.4	0.0	33	28	5	2013	
0.	0.0	32	27	5	2014	
0.	0.0	31	26	5	2015	
0.	0.0	29	25	5	2016	
0.	0.0	28	24	4	2017	
0.	0.0	27	23	4	2018	
0.	0.0	26	22	4	2019	
0.	0.0	25	21	4	2020	
0.	0.0	24	20	4	2021	
0.	0.0	23	19	4	2022	
0.	0.0	22	19	3	2023	
0.	0.0	21	18	3	2024	
0.	0.0	20	17	3	2025	
0.	0.0	20	17	3	2026	
0.	0.0	19	16	3	2027	
0.	0.0	18	15	3	2028	
0.	0.0	17	15	3	2029	
0.1	0.0	17	14	3	2030	

JICARILLA K #16 OFFSET OPERATORS



Township 25N --- Range 5W

Conoco, Inc. Form C-107-A, Application for Downhole Commingling Filing date: June 13, 1997

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Offset Operators for Wells as listed below:

Jicarilla K, Well #II Marathon Oil Co. Burlington Resources Amoco Production Co.

Jicarilla K, Well #17 Burlinton Resources Amoco Production

Jicarilla K, Well #16 Burlington Resources Amoco Production

Newsom, Well #I7E Amoco Production Snyder Oil Co. Robert R. Click

Jicarilla K, Well #15E Burlington Resources

Jicarilla E, Well #10 Burlington Resources

Jicarilla E, Well #12 Burlington Resources

Federal, Well #I3E Burlington Resources Caulkins Oil Co.

AXI Apache J, Well #18A Amoco Production Elm Ridge Resources

Federal, Well #IIE Caulkins Oil Co. Amoco Production Burlington Resources

Reames COM, Well #2 Caulkins Oil Co. Burlington Resources Conoco, Inc. Form C-I07-A, Application for Downhole Commingling Filing Date: June I3, 1997 Address List for Offset Operators

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RE: Jicarilla K, Well #11, Jacarilla K, Well #17, Jicarilla K, Well #16, Newsom, Well #17E, Jicarilla K, Well #15E, Jicarilla E, Well #10, Jicarilla E, Well #12, Federal, Well 313E, AXI Apache J, Well #18A, Federal, Well #11E, Reames COM, Well #2

Marathon Oil Co., Box 552, Midland, Texas 79702

Burlington Resources, c/o Meridian Oil, Inc., Box 51810, Midland, Texas 79718-1810

Amoco Production Co., Exploration & Production Sector, Box 489I, Houston, Texas 772I0

Caulkins Oil Co., Box 340, Bloomfield, NM 874I3

Elm Ridge Resources, Box 3946, Farmington, NM 87499

Snyder Oil Co., no longer an operator in the New Mexico Aztec District as per District Office.

Robert R. Click, no longer an operator in the New Mexico Aztec District as per District Office.

P 497 368 595

US Postal Service Receipt for Certified Mail

Amoco Production Co. Expl. & Prod. Sector Box 4891 Houston, Texas 77210

Postage	\$ 1.93
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom,	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 4.38
TOTAL Postage & Fees Postmark or Date	-97

P 497 368 594

US Postal Service Receipt for Certified Mail

Burlington Resources c/o Meridian Oil, Inc. Box 51810 Midland, Texas 79710-1810

	Postage	\$ 2.90
	Certitled Fee	1.35
	Special Delivery Fee	
10	Restricted Delivery Fee	
April 1995	Return Receipt Showing to Whom & Date Delivered	1.10
April	Return Receipt Showing to Whom, Date, & Addressee's Address	
800,	TOTAL Postage & Fees	\$ 5.35
PS Form 3800	Postmark or Date	-97

P 497 368 597 US Postal Service Receipt for Certified Mail

Elm Ridge Resources Box 3946 Farmington, NM 87499

	Postage	\$:78	ł
	Certified Fee	1.35	
	Special Delivery Fee		
10	Restricted Delivery Fee		
April 1995	Return Receipt Showing to Whom & Date Delivered	1.10	
April	Return Receipt Showing to Whom, Date, & Addressee's Address		
800	TOTAL Postage & Fees	\$ 3.23	
Ē	Postmark or Date		
PS Form 3800	6-18	-97	

P 497 368 593

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US Postal Service Receipt for Certified Mail

Marathon Oil Co. Box 552 Midland, Texas 79702

	Postage	\$.78
	Certified Fee	1.35
	Special Delivery Fee	
	Restricted Delivery Fee	
April 1995	Return Receipt Showing to Whom & Date Delivered	1.10
Apri	Return Receipt Showing to Whom, Date, & Addressee's Address	
PS Form 3800 .	TOTAL Postage & Fees	\$ 3.23
Ê	Postmark or Date	
For		8-97
8	6-10	

P 497 368 596 US Postal Service Receipt for Certified Mail

Caulkins Oil Co. Box 340 Bloomfield, NM 87413

Postage	\$ 1.24
Certified Fee	\$ 1.24 1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.69
Postmark or Date	7
