### DISTRICT I

+O Box 1980 Hobbs NM 48241 (980

STRICT II

SIGNATURE

TYPE OR PRINT NAME Kay Maddox

811 South! First St. Artesia NM 88210 2835

DISTRICT III

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

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

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

APPROVAL PROCESS:

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Administrative Hearing FXISTING WELLBORE

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DATE 4-24-98

686-5798

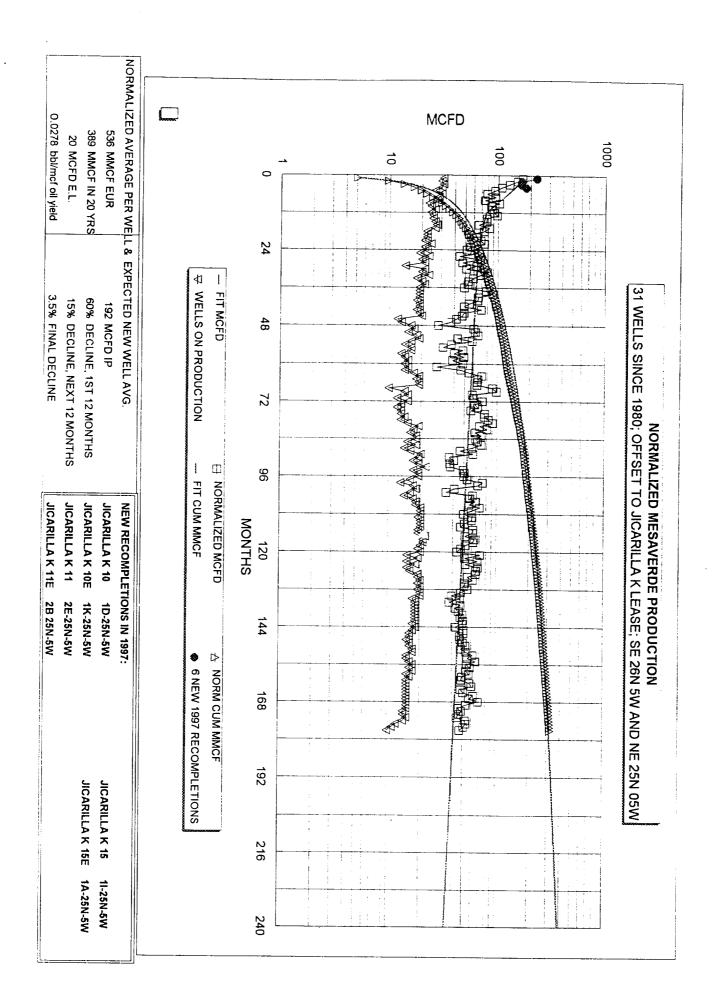
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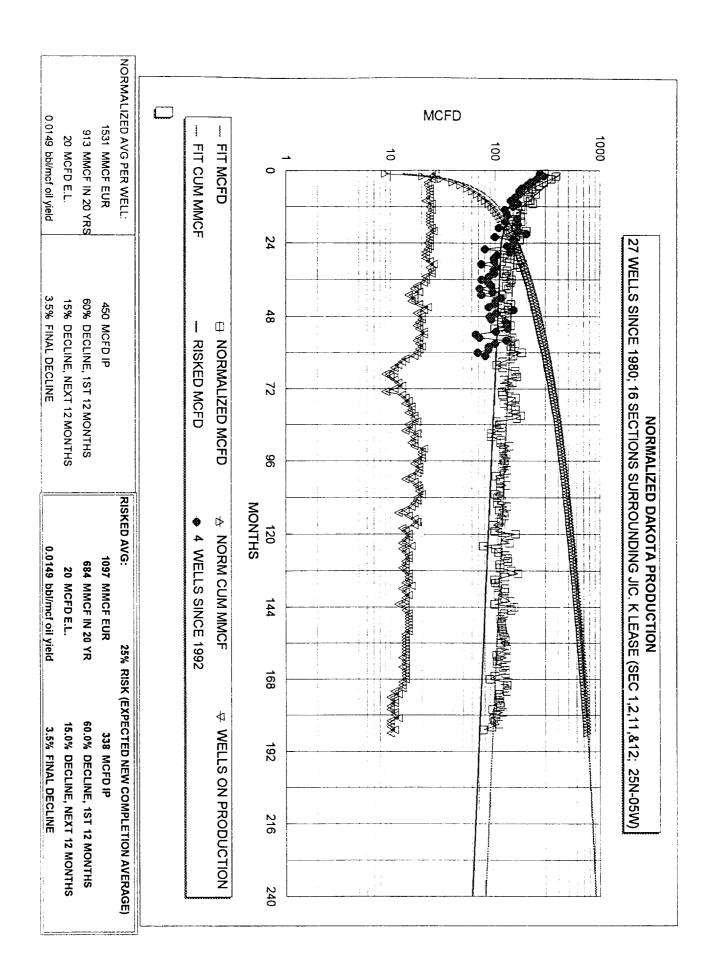
1000 Rio Brazos Rd. Aztec. NM 87410 1693	APPLICATION FOR DOW	WINHOLE COMMINGLING	YES NO
Canaca Inc.	10	Desta Dr. Ste 100W, Midland	Tx 79705-4500
Jicarilla K	#13 E	Section 11, T-25-N, R-5-W, I	Rio Arriba
OGRID NO. 005073 Property Code	a 18023 API NO		Jnii Lease Types (check 1 or more)  . State (and/or) Fee
The following facts are submitted in support of downhole comminging.	Upper Zone	intermediate Zone	Lower Zone
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 Gas & Oil - Flowing	a (Current) 562		950
Measured Current All Gas Zones Estimated Or Measured Original	b(Original) 1322	<u>ไปปั</u> ปบุ <u>ป</u> 1 3 193	2809
5. Oil G-avity (*AP!) or Gas BT Content	1260	തന രാജം 🗖	)[[\].\].\].\].\].\].\].\].\].\].\].\].\].\
7 Producing or Shul-In?	To be Completed	E JUNG	To be Completed
Production Marginal? (yes or no)	Yes (expected)	- \	Yes (expected)
If Shut-In give date and oil/gas/ water rates of last production  Note For new zones with na graduction history applicant shad be required to attach production.	Oate Rales	Oate	Date Rates
estimates and supporting dara  If Producing. date and oil/gas/ water rates of recent lest (within 60 days)	Anticipated 1st Yr average 126 MCFD, 3.5 BOPD	Date Rares	Anticipated 1st Yr Average 221 MCFD, 3.3 BOPD
8 Fixed Percentage Allocation Formula -% or each zone	GAS	oul Gas	na Gas
If allocation formula is based usubmit attachments with supp	ipon something other than curi orting data and/or explaining r	rent or past production, or is ba nethod and providing rate proje	ased upon some other method, ections or other required data.
<ol> <li>Are all working, overriding, an If not, have all working, overri Have all offset operators been</li> </ol>	d royalty interests identical in a iding, and royalty interests bee given written notice of the proj	en notified by certified mail?	X Yes No Yes No X Yes No
11. Will cross-flow occur? X Y flowed production be recovered	es No If yes, are fluids co ed, and will the allocation formu	mpatible, will the formations no ula be reliable. X Yes	ot be damaged, will any cross- No (If No, attach explanation)
12. Are all produced fluids from a	Il commingled zones compatib	le with each others $X$	res No
13. Will the value of production be		<del></del> `	es, attach explanation)
14 If this well is on, or communit United States Bureau of Land	ized with, state or federal land I Management has been notifie	<ul> <li>s, either the Commissioner of fed in writing of this application.</li> </ul>	Public Lands or the $\frac{X}{X}$ Yes No
15. NMOCD Reference Cases for	Rule 303(D) Exceptions:	ORDER NO(S)	
* Production curve fo • For zones with no p • Data to support allo • Notification list of a • Notification list of	or each zone for at least one year oroduction history, estimated p ocation method or formula, all offset operators, working, overriding and royalt	is spacing unit and acreage de- ear. (If not available, attach ex- production rates and supporting ty interests for uncommon inter- quired to support commingling	ofanation.) c data. rest cuses

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

TITLE Regulatory Agent

TELEPHONE NO.





### 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.

#### THE SHAD FORM APPROVED the comme OMB NO. 1004-0136 Other instructions on UNITED STATES reverse side: Expires February 28, 1995 DEPARTMENT OF THE INTERIOR 5 LEASE DSIGNATION AND SERIAL NO BUREAU OF LAND MANAGEMENT **CONT 145** APPLICATION FOR PERMIT TO DRILL OR DEEPEN 6 IF INDIAN, ALLOTTEE OR TRIBE NAME TYPE OF WORK JICARILLA DRILL 🔯 DEEPEN | 7 UNIT AGRREEMENT NAME CORE OF WILL Wille. OTHER SESCHAR 1 FARM OR LEASE NAME WELL NO. ZONE SAME OF OPERATOR JICARILLA K #13E Conoco Inc. 9 API WELL NO 1. ADDRESS AND TELEPHONE NO. 10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500 10. FIELD AND POOL, OR WILDCAT 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements \*) Blanco MV/Basin Dakota 1450' FSL & 940' FWL 11. SEC, T., R., M., OR BLK. AND SURVEYOR AREA At proposed prod. zone Sec 11, T25N, R5W 1450' FSL & 940' FWL 14 DISTANCE IN MILES AND DIRECTION FROM NEAEST TOWN OR POST OFICE 12 COUNTY OR PARISH 13. STATE Rio Arriba NM 5. DISTANCE FROM PROPOSED. 16 NO OF ACRES IN LEASE 17 NO OF ACRES ASSIGNED TO THIS WELL LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if Anv) 8. DISTANCE FROM PROPOSED LOCATION\* 319.5 19. PROPOSED DEPTH TO NEAREST WELL, DRILLING, COMPLETED, 20. ROTARY OR CABLE TOOLS OR APPLIED FOR, ON THIS LEASE, FT, Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START\* 6766' GR 3/31/98 77 PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING 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# 7472 1085 sxs, circ. It is proposed to drill a vertical wellbore to be downhole commingled in the Blanco Mesaverde and Basin Dakota Pools following the accuisition 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

		Mike L. Mankin		
SIGNED	Tille & To William	TITLE Right of Way Agent	DATE	3/9/98
		APPROVAL DATE		
Application	approval does not warrant or certify that the applicant h	olds legal or equitable title to those dobs in the subject lease wh	inh same tal austre service or	
Application	approval does not warrant or certify that the applicant his OF APPROVAL, IF ANY:	olds legal or equitable title to those righs in the subject lease wh	ich would entitle the applican	t to conduct operation

PO Box 2088 Santa Fe, NM 87504-2089

State of New Mekillo

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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.

# CONDITIONS OF APPROVAL FOR DOWNHOLE COMMINGLING

Operator	Conoco	Inc.	Well:	Name	Jic.	145	K #13	

- 1. The individual production zones will be tested every three years, or more often if production rates indicate a change to allocation factors, to verify that the allocation factors and methods remain proper.
- 2. Production from downhole commingled wells are to be reported with an alpha character, "C" (ie C1, C2, etc).
- 3. The following modifications to your downhole commingling program are to be made:

Submit production allocation formula upon completion of testing.

Submit well bore diagram upon completion of well.