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State of New Mexico
Energy Minerals and Natural Rasources Department
OIL CONSERVATION DIVISION
2040 S' Pacheco

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

- APPROVAL PROCESS:

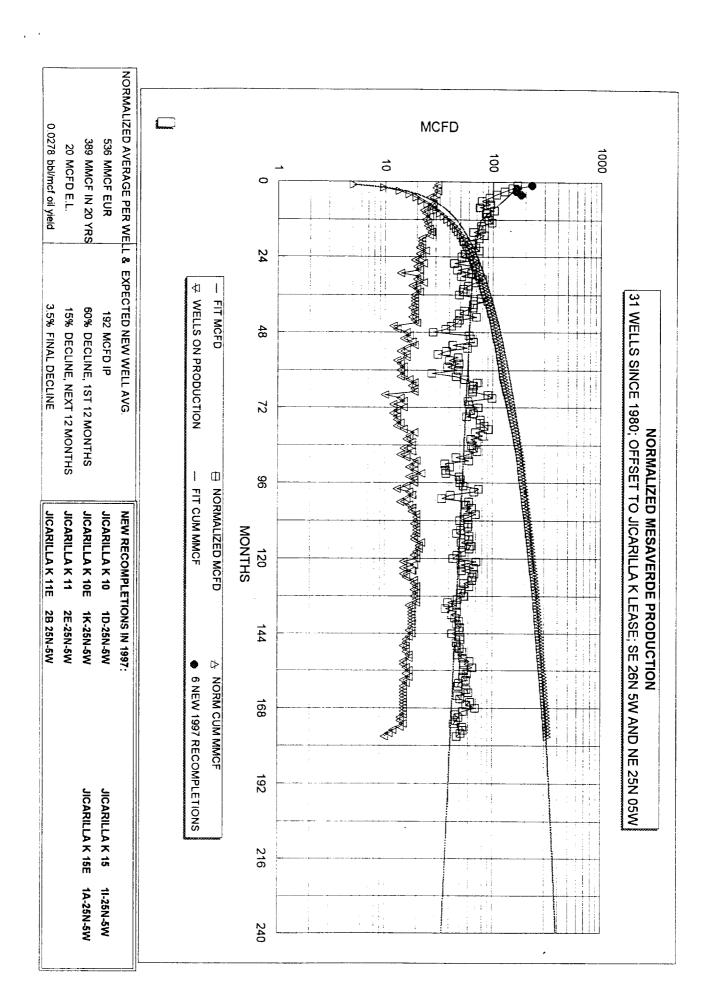
811 SOUTH First St. Artesia NM 88210 2835 <u>DISTRICT III</u> 1000 Rio Brazos Rd. Aztec. NM 87410 1693	Santa Fe. New M	Administrative ☐ Hearing EXISTING WELLBORE ☐ YES ☑ NO					
Conoco Inc.	10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500						
Jicarilla K	# 16 E	Section 12, T-25-N, R-5-W, Utr Sec Twp Hge	, A Rio Arriba				
005073	de API NO	Space	ig Unit Lease (ppes (check 1 or more) . State ((and/or) Fee (
The following facts ate submitted in support of downhole commingling.	Upper Zone	intermediate Zone	Lower Zone				
Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599				
2 TOP and Boltom of Pay Section (Perforations)	5229-5590'		7257-7487'				
3 Type of production (Oil or Gas)	Gas		Gas				
4 Method of Production (Flowing or Artificial Lill)	To Flow		To Flow				
5. Bottomhole Pressure	a (Current)	a	a				
Oil Zones - Artilicial Lift: Estimated Current Gas & Oil - Flowing	562		950				
Measured Current All Gas Zones	b(Original)	D	b				
Estimated Or Measured Original	1321		2810				
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 last production	Date	Date	Date				
Note For new zones with no production history applicant shad be required to attach production	Rates	Hare	Rates				
estimates and supporting data	Date Anticipated 1st Yr	Cale	Anticipated 1st Yr				
water rates of recent test (within 60 days)	Average 126 MCFD, 3, 5 BOPD	Rates	Average 221 MCFD, 3.3 BOPD				
8 Fixed Percentage Allocation Formula -% or each zone	l gas	G45	Gas				
9. If allocation formula is based usubmit atlachments with supp 10. Are all working, overriding, an if not, have all working, overridave all offset operators been 11. Will cross-flow occur? 12. Yellowed production be recovered.	of ting data and/or explaining in d royalty interests identical in a ding, and royalty interests bee given written notice of the prop	nethod and providing rate projections of the projection of the providing rate projection of the providing rate	x Yes No				
12 Are all produced fluids from al							
3. Will the value of production be			resNo es, attach explanation)				
If this well is on, or communiti. United States Bureau of Land							
5. NMOCD Reference Cases for F	Rule 303(D) Exceptions:	ORDER NO(S)					
• For zones with no pr • For zones with no pr • Data to support allow • Notification list of a • Notification list of w	e to be commingled showing its reach zone for at least one yes reduction history, estimated preaction method or formula. Il offset operators, working, overriding and rayalty ments, data, or documents requ	s spacing unit and acreage decar. If not available, attach exproduction rates and supporting					
hereby certify that the information	1	o the best of my knowledge ar	nd belief.				
GNATURE THE	Madd ox	TITLE Regulatory Agent	_DATE 4/24/98				
YPE OR PRINT NAME Kay Madd	ox	TELEPHONE NO. ((915) 686-5798				

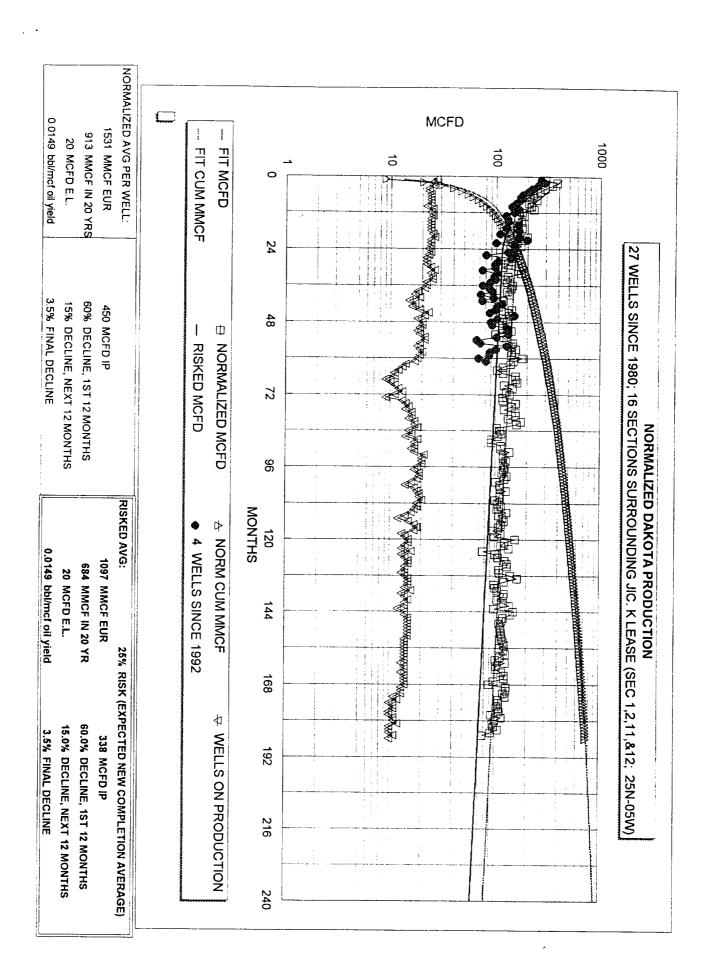
TELEPHONE NO. (915) 686-5798

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.





UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED CMB NO. 1004-0136 Expires February 28, 1995

BUREAU OF LAND MANAGEMENT							CLEASE DSIGNATION AND SERIAL NO		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN							CONT 145 5 IF INDIAN, ALLOTTEE OR TRIBE NAME		
T LYPE OF WORK	ICATION FOR P	ERMII IOI	JRILI	L OR DE	EPEN		JICARIL		
	itet. 🔯	DEEPEN (;	TUNIT AGRREEMENT NA		
Witti 🔛 y	VELL OTHER			Note to the latest the latest terms of the lat	ZONE_	4	FARM OR LEASE NAME WEL	T NO	
NAME OF OPERATOR :	Conoco Inc.						JICARILLA K #16E		
ADDRESS UND TELEPHONE NO							9 API WELL NO		
		nd Tx 79705-4	500	91	5_686_570/	, i	IA FIELD LVD BOOL OF		
10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500 915-686-5794 + LOCATION OF WELL (Report location clearly and in accordance with any State requirements *)							Blanco MV/Basin		
1190' FNL & 1060' FEL							II SEC. T., R., M. OR B AND SURVEY OR AR		
At proposed prod. zone 1190' FNL & 1060' FEL							Sec. 12, T25N		
DISTANCE IN MILES	ND DIRECTION FROM NE	AEST TOWN OR PO	TOFICE	•			12 COUNTY OR PARISH	IJ. STATE	
	*- **		.				Rio Arriba	NM	
5. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE	OSEO*		16 NO	OF ACRES IN	LEASE	17. NO. OF TO TE	ACRES ASSIGNED		
(Also to nearest dr	lg. unit line, if Any)		ļ	±1	y		320/320/160		
TO NEAREST WELL, D	RILLING, COMPLETED.		19. PR	POSED DEPT		20 ROTARY OR CABLE TOOLS			
OR APPLIED FOR, ON TH	is LEASE, FT. lether DF, RT, GR, etc.)			7787'		L	Rotary		
CC :::::OitG (GIIO# #1		6693' GR		•			22. APPROX. DATE WORK WILL START 4/15/98		
3		PROPOSED CASI	NG AND	CEMENTING	3 DD O CD 4 1	·· ········	1 4/13/9	0	
SIZE OF HOLE	T	WEIGHT PER FO				· 	OHANTITY OF COMPAT		
11"	GRADE SIZE OF CASING K-55, 8-5/8"	24#		SETTING			QUANTITY OF CEMENT		
7-7/8"	K-55, 5-1/2"	15.5#			130 sxs, circ. 1080 sxs,circ.				
	120,0	10.0					1000 3x3,0110.		
with the BLM and NI following attachment . Well Location & A. Proposed Well Plant. . Cementing Plant. . Blowout Preventer	Acerage Dedication Pla in Outline. r Hookup. with Production Facilit	ngling. A NOS v	vas file	d 10/31/97.	This well				
ABOVE SPACE DESC	RIBE PROPOSED PROGR	AM: If proposal is to de ons and measured and	epen give true vertic Mik	al depths. Give I	dowout preven			proposal is to drill o	
110×10 /1/1/2	1 Thurken		LE Rig	ht-of-Way A	gent		DATE Marc	h 4, 1998	
(This space for Fed	eral or State office use)							=::-::	
PERMIT NO				APPROVAL DAT	E				
Application approval does	not warrant or certify that the ap NL, IF ANY:	oplicant holds legal or ed	quitable tit	le to those righs	in the subject le	ase which wo	uld entitle the applicant to ∞ n	duct operations the	
							,		
APPROVED BY		TITLE					DATE		

1 Makemuri Artologi M. 86211 (111)

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WELL COCATION AND ACREAGE CELLUTION PLAT

	API Numbe	r		'250. Soc	te		1200 Nan	29	0+070	
	2-1-		723	19/715	99/82329	Blanco M	esaverd/B	asin Dakot	Otero a/Chacra	
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00507	3				'Goerator Name CONOCO				65931	
·					¹⁰ Surface	Location				
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A	12	25N	5W		1190	North 1060		East	PIC ARRIEA	
		¹¹ Bo	ottom	Hole L	ocation I	f Different	From Surf	ace	<u> </u>	
UL on latina.	Section	Township	Range	Lat ion	Feet from the	North/South line	Faet from the	East/West line	County	
¹² Cedicated Acres		13 -ount or Info	11 110		114					
		- Sount or Inti	in Core	solidation Code	²⁵ Order Na.					
320/320										
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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.

CONDITIONS OF APPROVAL FOR DOWNHOLE COMMINGLING

Operator <u>Conoco Inc.</u>	Well Name	Jic. 14	5 K #16E
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- 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.