

July 29, 1996

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P. O. Box 6429 Santa Fe, NM 87505

Application for Exception to Rule 303-A
Downhole Commingling
Jicarilla Contract 146 Well #11E
Unit O Section 4-T25N-R5W
Basin Dakota and Blanco Mesaverde Pools
San Juan County, New Mexico

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. By copy of this application by certified mail, return receipt requested, Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in his opinion, waste will not result thereby, and correlative rights will not be violated.

DHC

Southern

Rockies

Business

Unit

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely

Pamela W. Staley

**Enclosures** 

cc:

Steve Smethie

Patty Haefele

Wellfile

**Proration File** 

Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410 Robert Kent Bureau of Land Management 435 Montano NE Albuquerque, NM 87107

#### **OIL CONSERVATION DIVISION**

APPROVAL PROCESS:

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

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 X Administrative \_\_ Hearing

DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410-1693

### APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

X YES \_\_NO

Amoco Production Company Operator		P.O. Box 800 Denver, CO 802	201
Jicarilla Apache 146	11E	Unit O Section 4-T25N-R5V	W Rio Arriba
Lease	Well No.	Unit Ltr Sec Twp - Rge	County
OGRID NO. 000778 Property Code	000738 API NO. 3003922		pacing Unit Lease Types: (check 1 or more)  x State (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
Pool Name and     Pool Code	BLANCO MESAVERDE 72319		BASIN DAKOTA 71599
Top and Bottom of Pay Section (Perforations)	5190' - 5350 '		7183 ' - 7369'
Type of production     (Oil or Gas)	GAS		GAS
Method of Production     (Flowing or Artificial Lift)	FLOWING		FLOWING
Bottomhole Pressure     Oil Zones - Artificial Lift:     Estimated Current	(Current) 851 PSI	a.	a 1212 PSI
Gas & Oil - Flowing:  Measured Current  All Gas Zones: Estimated or Measured Original	(Original) 1402 PSI b.	b.	b. 2976 PSI
6. Oil Gravity (° API) or Gas BTU Content	1283 BTU		1264 BTU
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		NO
If Shut-In, give data and oil/gas/water	Date:	Date	Date
rates of last production  Note: For new zones with no production history, applicant	Rates:	Rates:	Rates:
shall be required to attach production estimates and supporting data			
If Producing, give date and oil/gas/water rates of recent test (within 60 days)	6/96 Date: 111 MCFD Rates: 0.4 BCPD 0.90 BWPD	Date: Rates:	Date: 6/96 Rates: 102 MCFD 0.7 BCPD 0.7 BWPD
Fixed Percentage Allocation     Formula -% for each zone	Oil: 36 %: Gas 52 %	Oil: Gas %: %	Oil: 64 %: Gas 48 %
	something other than current or past p	production, or is based upon some other or other required data.	method, submit attachments with
If not, have all working, overriding,	valty interests identical in all commingle and royalty interests been notified by c en written notice of the proposed downh	certified mail?	_X_Yes No Yes No _X_Yes No
11. Will cross-flow occur? _X _ Yes _ and will the allocation formula be r	No If yes, are fluids compatible, wi eliableX_YesNo (If No, attach	ill the formations not be damaged, will an explanation)	y cross-flowed production be recovered,
12. Are all produced fluids from all cor	mmingled zones compatible with each o	other? _X_Yes No	
	creased by commingling?Yes	•	•
<ol> <li>If this well is on, or communitized that has been notified in writing of this</li> </ol>	with, state or federal lands, either the CapplicationX_Y	commissioner of Public Lands or the Unit es No _JICARILLA APACHE 146	ed States Bureau of Land Management
15. NMOCD Reference Cases for Rule	303(D) Exceptions:	ORDER NO(S).	
<ul> <li>Production curve for each</li> <li>For zones with no production</li> <li>Data to support allocation</li> <li>Notification list of all offset</li> <li>Notification list of working</li> </ul>		nilable, attach explanation.) s and supporting data. ncommon interest cases.	
I hereby certify that the information about	overs true and complete to the best of	my knowledge and belief.	
SIGNATURE MANAGEMENT	Shif-	TITLE REGULATORY AFFAIRS	REP DATE 7/29/96
TYPE OR PRINT NAME PAMELA	N. STALEY	TELEPHONE NO. ( 30	3) _830-5344

### OIL CONSERVATION DIVISION

CHERGY AID MINERALS DEPARTMENT

STATE OF NEW MEXICO

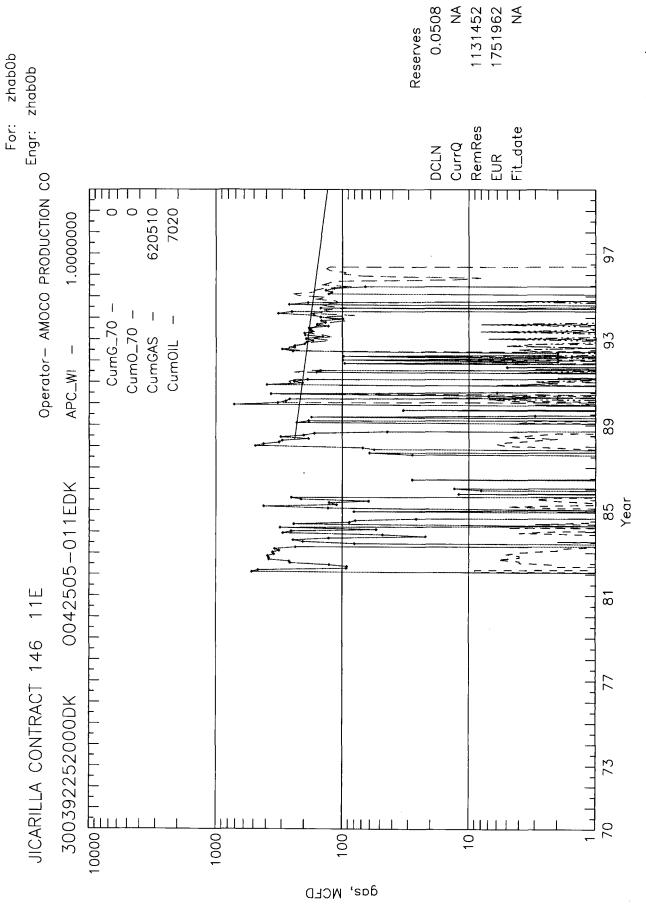
P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

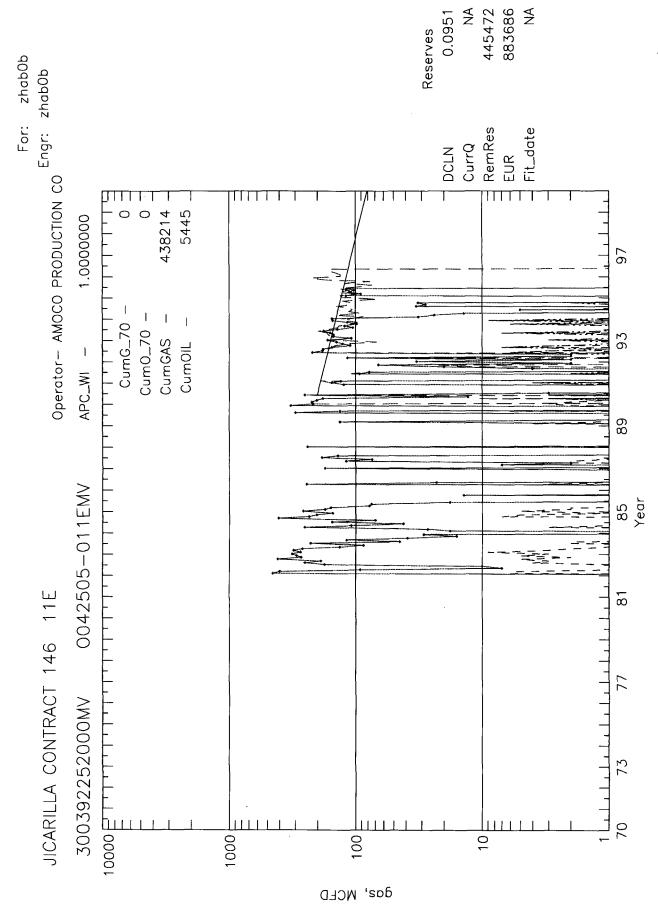
Form C-107 Revised. 10-1-7

All distances must be from the cuter houndaries of the Section.

AMONO PRODUCTION COMPANY    Section   Teremobile   December   Dece	Operator	<u> </u>		Lease				Well No.	
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Sec.	Unit Letter Section Township			Rang	•	County			
Sec.   1660   163   16		4	25N		5W	Rio	Arriba		
Sec.    Pool Otero Chacra-Gonzales MV   Dedicated Average   150/320   Acres   150/32				2//	· ^				
1. Outline the acreage dedicated to the onlinet 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 identify 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 communitization, unitization, force-pooling, etc?  — Yes — No — If answer is "yes," type of consolidation —  If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if accessary.)  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Commission.  CERTIFICATION  I hereby certify that the information contained breath is two and complete in the bear of my honoledge and ballet.  M. A. DOWNEY —  Feature —  DISTRICT ENGINEER  Company —  ANOCO PRODUCTION COMPANY  Date  Sec.  1650!  Dive —  Company —  ANOCO PRODUCTION COMPANY  Date  Thereby certify that the well function above my late of the bear of my knowledge and ballet.  Little 29, 1360.  Proceedings and ballet.  Company —  ANOCO PRODUCTION COMPANY  Date  Thereby certify that the well function above my late of the bear of my knowledge and ballet.  Company —  ANOCO PRODUCTION COMPANY  Date  Thereby certify that the well function above my late of the bear of my knowledge and ballet.  Company —  ANOCO PRODUCTION COMPANY  Date  Thereby certify that the well function above my late of the bear of my knowledge and ballet.  Company —  ANOCO PRODUCTION COMPANY  Date  Thereby certify that the bear of my knowledge and ballet.  Company —  ANOCO PRODUCTION COMPANY  Date  Thereby certify that the bear of my knowledge and ballet.  Company —  Thereby certify that the bear of my knowledge and ballet.  Company —  Thereby certify that the bear of my knowledge and		1000 110111 1110	11119					<del></del>	
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Last Op. Forecast by zhabOb in 04/1996



Last Op. Forecast by zhabOb in 04/1996

#### STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

Page 1

#### OIL CONSERVATION DIVISION

#### NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

operator:	AMOCO	PRODUCTION	Company	Lease/Well	#:JIC	CONTRACT	146 11E	
Location	of Well	1: 2042305	Meter #	: 85523	RTU:	1-109-01	County:	RIO ARRI

Locat	ion of Well	: 0042505	wMeter #: 85	523 RTU	J: 1 <del>-</del> 109-01	County: RIO ARRI
	NAME RESERVOIR OR POOL			TYPE PROD	METHOD PR	OD MEDIUM PROD
UPR COMP	BLANCO MESAVERDE		85524	GAS	FLOW	TBG
LWR COMP			85523	GAS	FLOW	TBG
		PRE-	FLOW SHUT-IN	PRESSURE DA	TA	<u> </u>
	Hour/Date	Shut-In	Length of Ti	me Shut-In	SI Press.	PSIG Stabilzed
UPR COMP			72 Hou	rs	430	
LWR COMP	1 -		72 Hou	rs	630	No No
	_		FLOW TES	T DATE NO.1	( <u></u>	1
Comme	enced at (ho	our, date) *	· · · · · · · · · · · · · · · · · · ·		Zone 1	Producing (Upr/Ewr
(hc	TIME our, date)	LAPSED TI SINCE*		PRESSURE Upper Lower		REMARKS
	11/19/90	Day 1				Both Zones SI

TIME	LAPSED TIME	PRE	SSURE	Prod	,
(hour, date)	SINCE*	Upper	Lower	Temp.	REMARKS
11/19/90	Day 1	270	359	-     -	Both Zones SI
11/20/90	Day 2	435	535		Both Zones SI
11/21/90	Day 3	468	643		Both Zones SI
11/22/90	Day 4	430	630		lowed lower three
11/23/90	Day 5	432	331		I I I I I I I I I I I I I I I I I I I
11/24/90	Day 6	434	377		the said

BOPD based on BBLs in Hrs Grav MFCPD: Tested theu (Orifice or Meparte: MID-TEST SHUT-IN PRESSURE DATA Length of Time SI SI Press. PSIG Hour, Date SI

UPR COMP

## ESTIMATED BOTTOMHOLE PRESSURES BY FORMATION Jicarilla Contract 146 Well #11E

MV midperf at 5270' DK midperf at 7276'

Shut in pressures --- MV = 430 PSIG DK = 630 PSIG

GRADIENT = 0.08 PSI/FT

MV BHP = 430 PSIG + 5270' X 0.08 PSIG = 851 PSIG

DK BHP = 630 PSIG + 7276' X 0.08 PSIG = 1212 PSIG

# OFFSET OPERATORS Jicarilla Contract 146 Well #11E

Conoco, Inc. 10 Desta Drive West Midland, Texas 79705