ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

		- Engineering Bureau -	2422
		ADMINISTRATIVE APPLICATION COVERSHEET	-
	THIS COVERSHI	IEET IS MANDATORY FOR ALL ADMINIS TRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REC	BULATIONS
Applic	[PC-Pe	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection P ressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Responses	nt]
[1]	TYPE OF A	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling _NSL _NSP _DD _SD OIL CONSE	2 1999 RVATION 01
	Check [B]	k One Only for [B] and [C] Commingling - Storage - Measurement X DHC _ CTB _ PLC _ PC _ OLS _ OLM	
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery _ WFX _ PMX _ SWD _ IPI _ EOR _ PPR	
[2]	NOTIFICAT [A]	FION REQUIRED TO: - Check Those Which Apply, or _ Does Not _ Working, Royalty or Overriding Royalty Interest Owners	Apply
	[B]	\underline{X} Offset Operators, Leaseholders or Surface Owner	
	[C]	_ Application is One Which Requires Published Legal Notice	
	[D]	\underline{X} Notification and/or Concurrent Approval by BLM or SLO 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 Attach	ed, and/or,
	[F]	_ Waivers are Attached	
[3]	INFORMAT	FION / DATA SUBMITTED IS COMPLETE - Statement of Under	standing

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.

	Age: Statement mustible completed by	v an individual with supervisory capacity.	
Mary Corley	Illary Milly	Sr. Business Analyst	9/13/99
Print or Type Name	Manature Manature	Title	Date



Amoco Exploration & Production

501 Westlake Park Blvd. Post Office Box 3092 Houston, TX 77079

DEGELVED SEP 2 I 1999 OIL CONSERVATION 21 DEN

September 14, 1999

Ms. Lori Wrotenbery, 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 Wilch A #3
Unit B Section 23-T29N-R8W
Blanco Mesaverde and Basin Dakota 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. All working, overriding and royalty interests are identical in both zone, therefore, no notification of this application is required to be submitted via certified mail. By copy of this application, Amoco is notifying all offset operators in the formations captioned above. 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 her opinion, waste will not result thereby, and correlative rights will not be violated.

Should you have questions regarding this application, do not hesitate to call me at 281-366-4491.

Sincerely,

Mary Cofley

Enclosares

cc:

Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

lames Dean

Duane Spencer Bureau of Land Management 1235 La Plata Hwy. Farmington, NM 87401

Well File

OFFSET OPERATORS Wilch A #3

Burlington Resources Oil and Gas Co. PO Box 4289 Farmington, NM 87499 Conoco Inc. 10 Desta Drive, Suite 100 West Midland, TX 79705-4515

PRODUCTION ALLOCATION RECOMMENDATION Wilch A #3

Since no Mesaverde Production has been established for the subject well Amoco Production Company proposes to from the Dakota formation in the subject well and the estimated production rate established utilizing the production from Mesaverde wells producing in the immediate area of the subject well. This method of calculation is indicated on the attached Production Allocation Worksheet.

WORKING, OVERRIDING, and ROYALTY INTEREST OWNERS NOTIFICATION Wilch A #3

All of the working, overriding, and royalty interest are identical in both proposed commingled zones.

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107-A New 3-12-96

OIL CONSERVATION DIVISION

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

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

APPROVAL PROCESS:

x_Administrative __ Hearing

EXISTING WELLBORE

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

Amoco Production Company

APPLICATION FOR DOWNHOLE

NHOLE COMMINGLING	_x_YES NO
PO Box 3092 Houston, TX 77253-309	92

Lease Well No. Unit Ltr Sec Twp - Rge County Spacing Unit Lease Types: (check 1 or more) OGRID NO. 000778 Property Code 001215 API NO. 30-452-23342 Federal X , State , (and/or) Fee The following facts are submitted in support of downhole commingling: Lower Zone Zone							
The following facts are submitted in support of Upper Intermediate Lower							
Blanco Mesaverde 1. Pool Name and 72319 Basin Dakota Pool Code Basin Dakota 71599	ll ll						
2. Top and Bottom of Pay Section (Perforations) 5020' - 5688' EST. 7646' - 7874'							
3. Type of production Gas Gas							
4. Method of Production Flowing Flowing Flowing							
5. Bottomhole Pressure (Current) 622 PSIG (EST.) Oil Zones - Artificial Lift: Estimated Current (Current) 622 PSIG (EST.) a. 859 PSIG							
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original (Original) b. (Original) b. 2610 PSIG	•						
6. Oil Gravity (° API) or Gas BTU Content 1261 BTU (EST.) 1099 BTU							
7. Producing or Shut-In? New zone Producing							
Production Marginal? (yes or no) YES YES							
If Shut-In, give data and oil/gas/water rates of last production Date: Da							
Note: For new zones with no production history, applicant 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) Date: Rates: 0 BCPD 0 BWPD							
8. Fixed Percentage Allocation Formula -% for each zone Oil: Gas Oil: Gas Gas %: Gas	0 %						
9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments supporting data and/or explaining method and providing rate projections or other required data.	with						
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? Have all offset operators been given written notice of the proposed downhole commingling? x Yes No							
11. Will cross-flow occur? Yes _x No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be and will the allocation formula be reliablex_ Yes No (If No, attach explanation)	recovered,						
12. Are all produced fluids from all commingled zones compatible with each other?xYesNo							
13. Will the value of production be decreased by commingling?Yesx_No (If Yes, attach explanation)							
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the Untied States Bureau of Land Ma has been notified in writing of this application. _x_YesNo NO FEDERAL OR STATE LANDS	ınagement						
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. SEE ATTACHED * 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.							
TITLE Sr. Business Analyst. DATE 9/14/99 TYPE OR PRINT NAME Many Corley TELEPHONE NO. (281) 366-4491							

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised October 18, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

311 South First,, Artesia, NM 88210 **DISTRICTIII** 1000 Rio Brazos Rd., Aztec, NM 87410

2040 South Pacheco Santa Fe, New Mexico 87505

DISTRICT IV 2040 South Pacheco, Sante Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045	-23342	Pool Code 72319 & 71599	Pool Name Blanco Mesaverde &	Basin Dakota
Property Code Property Name 001215		Wilch A		Well Number
OGRID No. 000778	Operator Name	AMOCO PROD	DUCTION COMPANY	Elevation 6712' GR

Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT B	23	29N	8W		920	NORTH	1800	EAST	San Juan

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
Dedicated Acreage:		Joint or Infill	Cons	solidation Code	Order No.				
320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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		OPERATOR CERTIFICATION
	B. Carrie	I hereby certify that the informtion contained herein is true and complete to the best of my knowledge and belief
	1800'	Signature Massy Osley
		Printed Name Mary Corley
8		Position Sr. Business Analyst
		Date 08/14/1999
		SURVEY CERTIFICATION
		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 supervision, and that the same is true and correct to the best of my knowledge and belief.
		Date of Survey
		Signature & Seal of Professional Surveyor
		Fred B. Kerr, Jr.
		Certificate No.

DK	0.08	PC	0.04
MV	0.07	FT	0.04
		CK	0.04

WELL NAME:

Wilch 3

FORMATION:

DK

SURFACE PRESS:

238 7646

PERFS

TOP:

7874 **BOTTOM:**

7646 + 7874)/ 2 =

7760 Mid Perf

7760 x

0.08 621

620.8 +238

859 Bottom Hole Pressure

Initial Bottom Hole Pressure=

2610

WELL NAME:

Hardie 4

FORMATION:

MV

SURFACE PRESS:

304

PERFS

TOP: 5364

BOTTOM: 5526 5364 + 5526)/ 2 = 5445 Mid Perf

0.07 381

5445 x 381.15 +

304

685 Bottom Hole Pressure

Initial Bottom Hole Pressure=

1251

WELL NAME:

Hardie 4A

FORMATION:

MV

SURFACE PRESS: **PERFS**

197 TOP: 4683

BOTTOM:

4683 +

5627)/ 2 =

5155 Mid Perf 361

5627

5155 x 360.85 +

0.07

197

558 Bottom Hole Pressure

Initial Bottom Hole Pressure=

914

WELL NAME:

Wilch 3

FORMATION:

MV

Initial Bottom Hole Pressure: (

Bottom Hole Pressure: (

1251 +

685 +

914) / 2 ≅ 1083 558)/2≅

622

Hardie 4 + Hardie 4A

BBLS (

0 +

516) / 2 ≅ **258** est. annual production

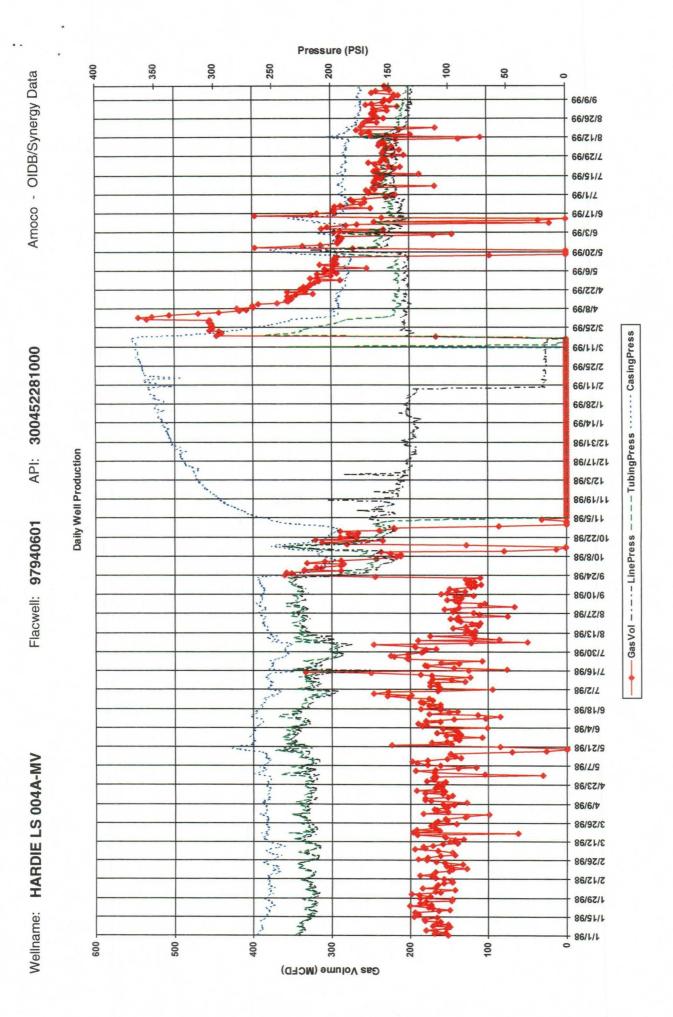
Hardie 4 + Hardie 4A MCF (41312 +

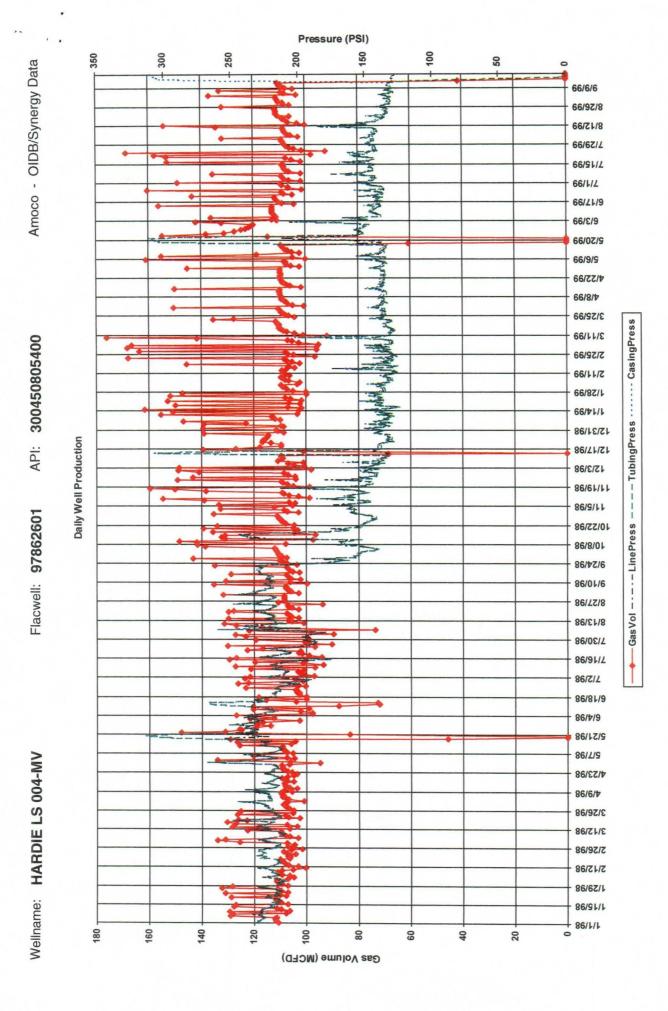
50917) / 2 ≅ 46115 est. annual production

ALLOCATION

FM	BBL	%	GAS	%
DK	0	0%	25377	35%
MV	211	100%	46115	65%

Gas Volume (MCFD)





300452279800 300452596600 ANDCO PROCESS OF THE PROC 300452493000 AMOCO ROELOF5 2E 0 300450837100 L AMOCO ROELOFS 8 2 300452236500 AMOCO ROELOFS B 3A 300452314900 BURLINGTON 300450833700 ROELDFS A 2A MACCO VANDEWART A 5 300452530400 ☐ VANDEWART B 1E 300452237400
BURLINGTON
ROELOFS A 2R
VANDEWART A 5A

QUA

30045202000
VANDEWART A 5A

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30045202000
VANDEWART A 5A

QUA

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ROELOFS A 2

VANDEWART B 1 1 3 300452305600 AMOCO VANDERWART A LS 4A 300452596700 E NANDEWART COM 900450820800 300452236400 AMOCO AMOCO RDELDES B 3 ROELOES B 2A 300450820200 RHOCD VANDENART A 3 1 300452403100 VANDENART 2 300452497100 O-RMDCD ROELDFS 1E œ 399452176600 36
AMOCO BURLINCTON 36
HARDIE H 2A VAN
WILCH H 3 D309452584700
3094525984700
HARDIE 12 4 HARDIE 12
HARDIE LS 4 HARDIE 12 300450809100 300452349000 ANOCO ROELOFS 8 1 ROELOFS 4 HOCO WILCH R SE WILCH R 3 300450808500 AMOCO VANDENART A 6 300452178100 BURLINGTON ROELOFS A 4R 300452056006 4 BURLINGTON HARDIE A ZR 300452518900 RMCCO RDELDFS 4E 300452272000 O RMCCO ROELDFS 8 1R 23 300452281100 AMOCD VANDENART A 6A 300452528400 AMDCO WILCH A 3E 300450794200 ROELOFS
BURLINGTON ROELOFS
ROELOFS A 4
900452011600
CONCECTOR
ROELOFS 1 300450794700 EL PASO HARDIE A 2 D 300452014400 CONDCD HARDIE 4 300450794600 AMOCO HARDIE LS 5 300452281000 AMOCO HARDIE, LS 4A 300452349100 RMDCO VANDEWART B 2 300452334500 AMOCO HUGHES A 2 300452272100 300450788800 MMOCO HUGHES C 30 HUGHES C 2 2545900 300452013500 CONOCO HARDIE 1 300452545900 HUGHES A IE 300452545900 13 AMCCO HUGHES A IE 300452696000 BURLINGTON HNOCO HARDIE A 1A HUGHES C 2R 26
300452545800
300452545800
100000
100000
HARDIE 1E
300450775900
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HARDIE LS 1A 300452519000 300452281380 ANOCO HARDIE LS 3A WILCH, A 2E 300452016100 AMOCO HUGHES A 1 300450776400 AMOCO HUGHES C 3 300452272200 AMOCO HUGHES C 2A 300452524800 AMDCO WILCH A 4E 0 300450776100 HARDIE LS 2 0

Q Dakota

☑ Mesaverde

AMOCO PRODUCTION COMPANY
HOUSTON, TX

WILCH A #3
23-29N-08W
MESAVERDE & DAKOTA WELLS

SCRIE 1" = 2500' DRIVE M. J. RITZ DRIE 2-SEP-1999
DRAHING