OATE IN J 2/2/98 SUSPENSE 3/4/98 ENGINEER DC LOGGED BY W TYPE DHC					
	OATE IN . 2/2/98 SUSPE	ENSE 3/4/98	ENGINEER DC	LOGGED BY	TYPE DHC

		NEW MEXICO OIL CONSERVATION DIVISION					
		- Engineering Bureau -					
ADMINISTRATIVE APPLICATION COVERSHEET							
	THIS COVERSH	ET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS					
Applicatio	PC-F	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] whole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	1				
[1] <b>T</b>	YPE OF AP	PLICATION - Check Those Which Apply for [A]	1				
(1)	[A]	Location - Spacing Unit - Directional Drilling  NSL NSP DD DSD  FEB   2 1998	on a contract of the contract				
	Check	One Only for [B] and [C]	İ				
	[B]	Commingling - Storage - Measurement  ☑ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM	,				
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  □ w F X □ PMX □ SWD □ IPI □ EOR □ PPR					
[2] N	, NOTIFICAT	ON REQUIRED TO: - Check Those Which Apply, or $\square$ Does Not Apply					
	[A]	☐ Working, Royalty or Overriding Royalty Interest Owners					
	[B]	☑ Offset Operators, Leaseholders or Surface Owner					
	[C]	☐ Application is One Which Requires Published Legal Notice					
	[D]	□ 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 Attached, and/or,					
	[F]	☐ Waivers are Attached					
[3]	INFORMAT	ION / DATA SUBMITTED IS COMPLETE - Statement of Understanding					
and Reg adminis	gulations of t strative appro interest (WI,	or personnel under my supervision, have read and complied with all applicable to Oil Conservation Division. Further, I assert that the attached application for val is accurate and complete to the best of my knowledge and where applicable, val, ORRI) is common. I understand that any omission of data, information or to have the application package returned with no action taken.					
Print or T	Kay Maddox ype Name		2/10/98				
	, po munio	Signature / Title Date					

DISTRICT I

DISTRICT III

PO Box 1980, Hobbs, NM 88241 1980

STRICT II

811 SouthI First St. Artesia NM 88210 2835

1000 Rio Brazos Rd. Aztec, NM 87410 1693

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

State of New Mexico Energy, Minerals and Natural Rasources Department

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

Σ

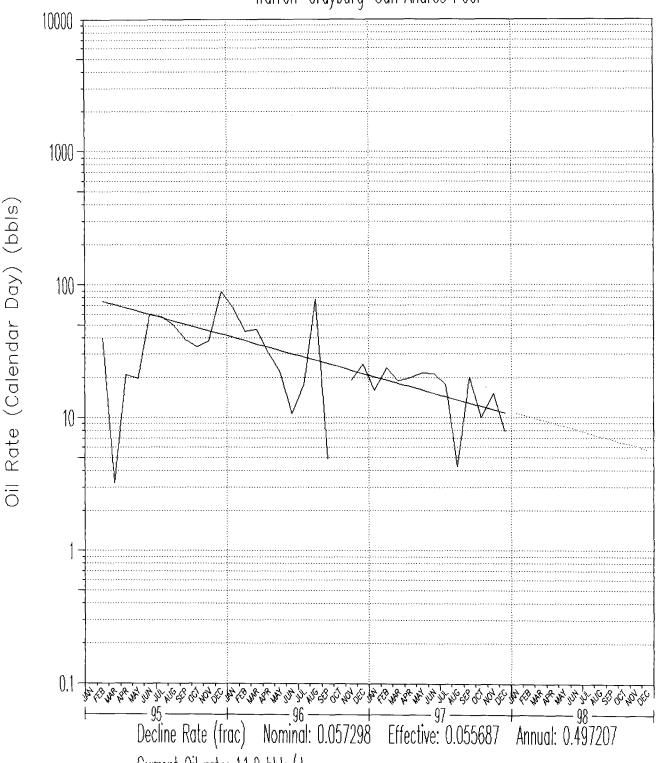
Administrativ	/e 🗌	Hearing

	EXISTING WELLBOKE
APPLICATION FOR DOWNHOLE COMMINGLING	X YES NO

TELEPHONE NO. (915) 686-5798

Conoco Inc.	10 Addres	Desta Dr. Ste 100W, Midland	, Tx. 79705-4500				
Warren Unit	108	Section 28, T-20-S, R-38-E, I	Lea county				
OGRID NO. 005073 Property Code	003122 API NO	·	Unit Lease Types: (check 1 or more) , State (and/or) Fee				
The following facts ate submitted in support of downhole commingling:	Upper Zone	intermediate Zone	Lower Zone				
1. Pool Name and Pool Code	Warren; Grayburg-San Andres 96343		Warren Drinkard 63080				
TOP and Bottom of     Pay Section (Perforations)	4070-4620'		6581'-6692'_				
3. Type of production (Oil or Gas)	Oil		Oil				
4. Method of Production {Flowing or Artificial Lilt}	Artificial Lift		Artificial Lift				
5. Bottomhole Pressure Oil Zones - Artilicial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a (Current) 500 psia b(Original) 1254 psia	a. b.	a. 800 psia b. 2055 psia				
6. Oil Gravity (°API) or Gas BT Content	35		41				
7. Producing or Shut-In?	Producing		Producing				
Production Marginal? (yes or no)  If Shut-In give date and oil/gas/water rates of lsst production  Note For new zones with no production history applicant shad be required to attach production estimates and supporting dara	yes Date Rates	Date Rater:	Yes  Date Rates  11/1/97				
If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Rates 15 BOPD, 24 MCFD, 56 BWPD	Dale Rates	Pate 5 BOPD, 254 MCFD, 13 BWPD				
8. Fixed Percentage Allocation Formula -% or each zone	Gas 75 % 9 %	oil: Gas %	oii: Gas 91				
9. 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.  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?  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 recovered, and will the allocation formula be reliable.  Yes No (If No, attach explanation)  12. Are all produced fluids from all commingled zones compatible with each others  X Yes No  13. Will the value of production be decreased by commingling?  Yes X 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 United States Bureau of Land Management has been notified in writing of this application.  Yes No  15. NMGCD 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 information	on above is true and complete	to the best of my knowledge a	nd belief.				
	Naclde P	TITLE Regulatory Agent	DATE February 10, 1998				
TYPE OR PRINT NAME Kay Mad	/	TELEPHONE NO.	(915) 686-5798				

Warren Unit No.108 Warren-Grayburg-San Andres Pool



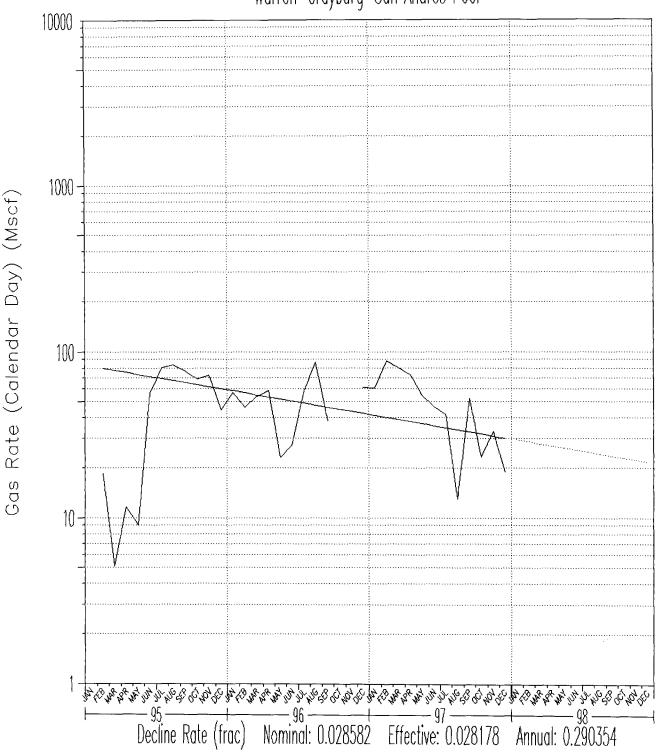
Current Oil rate: 11.0 bbls/d Economic Limit: 2.0 bbls/d

Cumulative Oil Produced: 30.8 Mbbls

Remaining Reserves: 4.8 Mbbls

Total Reserves: 35.6 Mbbls - At the Economic Limit

Warren Unit No.108 Warren-Grayburg-San Andres Pool



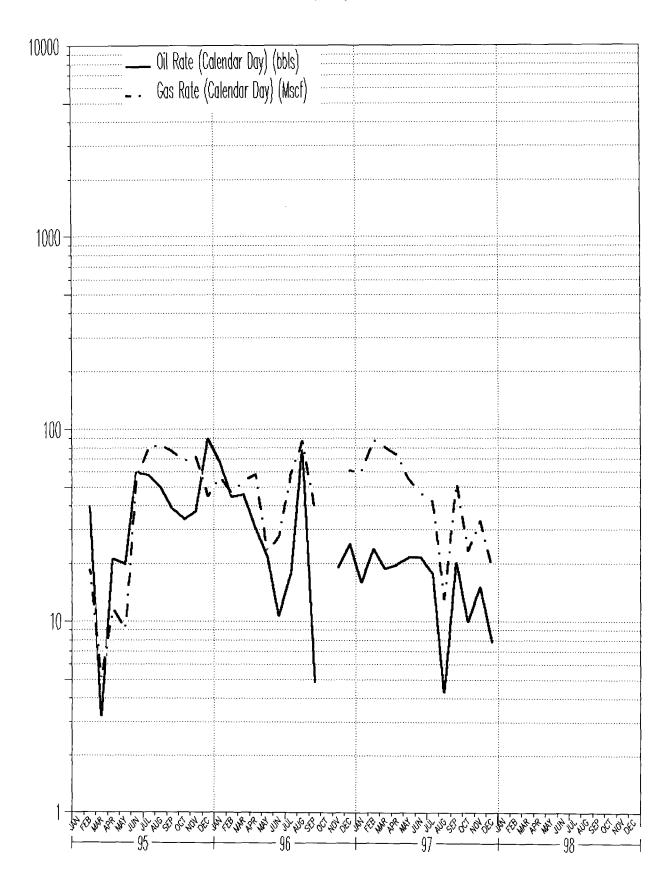
Current Gas rate: 30.00 Mscf/d Economic Limit: 10.000 Mscf/d

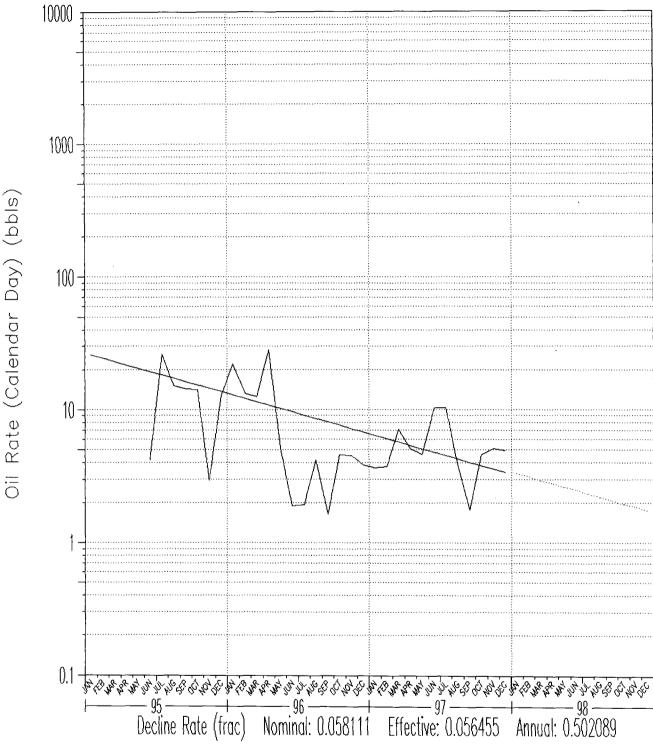
Cumulative Gas Produced: 49.32 MMscf

Remaining Reserves: 21.5 MMscf

Total Reserves: 70.8 MMscf - At the Economic Limit

Warren Unit No.108 Warren-Grayburg-San Andres Pool





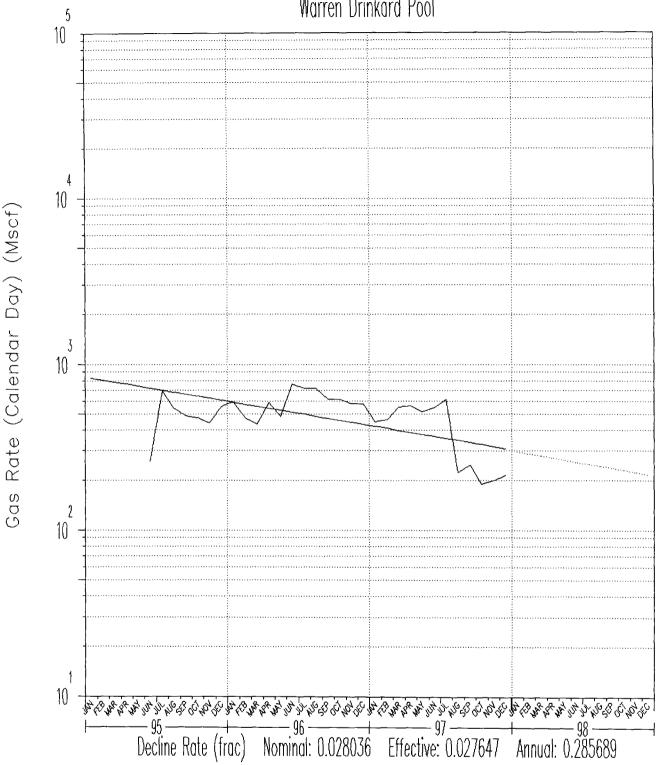
Current Oil rate: 3.4 bbls/d Economic Limit: 1.0 bbls/d

Cumulative Oil Produced: 8.2 Mbbls

Remaining Reserves: 1.3 Mbbls

Total Reserves: 9.5 Mbbls - At the Economic Limit

Warren Unit No.108 Warren Drinkard Pool

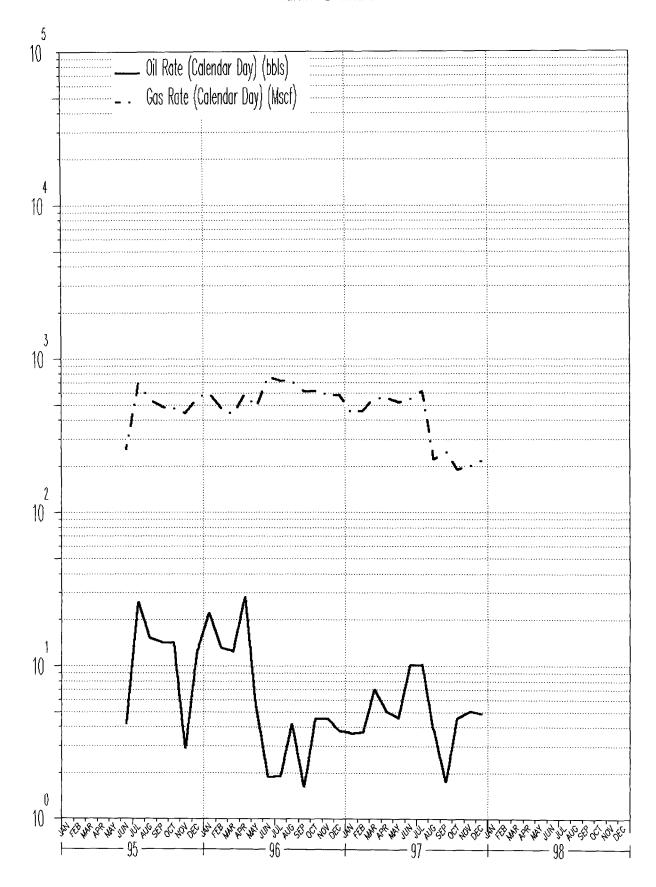


Current Gas rate: 300.00 Mscf/d Economic Limit: 20.000 Mscf/d

Cumulative Gas Produced: 470.02 MMscf

Remaining Reserves: 304.0 MMscf

Total Reserves: 774.0 MMscf - At the Economic Limit



District I PO Box 1980, Hobbs. NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 instructions on back Submit to Appropriate District Office

District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd. Aztec, NM 87410 District IV

PO Box 2088, Santa Fe. NM 87504-2088

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Fee Lease - 3 Copies

AMENDED REPORT

State Lease - 4 Copies

								L,	_ AIVIE	NDED REPORT
			LL LO	CATION	I AND ACR	EAGE DEDIC	CATION PL	AT		
AF	PI Numbe	r	2 Pool Code 3 Pool Name							
	-025-3266	56		96343 Warren Grayburg-San Andres						
4 Property	Code			5 Property Name 6 Well Number						ell Number
	003122				Warren U				ļ	#108
7 OGRID No	. ]				· ·	tor Name			9 E	levation
005073	3	Cond	oco Inc.,	10 Desta		00W, Midland, T	79705-4500	<u> </u>	<u> </u>	3533'
	_				10 Surface	Location				
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		OR A	NON-ST	ANDARD	UNIT HAS BI	EEN APPROVED	BY THE DIVI	ISION		
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<b></b>				- 31111111	*******		Signature an	nd Seal of Pi	rofessional	Surveyor:
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District I PO Box 1980, Hobbs. NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd. Aztec, NM 87410

PO Box 2088, Santa Fe. NM 87504-2088

District IV

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Revised February 21, 1994 instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

		W	ELL LO	CATIO	N AND ACI	REAGE DEDIC	CATION PL	AT					
AF	API Number 2 Pool Code 3 Pool Name												
	30-025-326			6308		Warren Drinkard				II Share bear			
4 Property	l				•	Property Name 6 Well Number				operty Name			
003122			·····	·		Varren Unit #108 Operator Name 9 Elevation							
7 OGRID No.	l l	0.0		10 Dani	•	ator Name	V 7070E 4E00		] 9 = 1				
00507	3		noco inc.,	10 Desi		00W, Midland, T. Location	X /9/05-450C	, 	<u></u>	3533'			
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		OR	A NON-ST	ANDAR	D UNIT HAS B	EEN APPROVEI	BY THE DIV	ISION					
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		1		<b>‡</b>	20		correct to th	e best of my	belief.				
				<b>#</b>	7203		Date of Co-	<u></u>					
		<b></b>		<b>\$18111</b>	4		11	Date of Survey Signature and Seal of Professional Surveyor:					
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Conoco, Inc.
Warren Unit Well # 108
API # 30-025-32666
Section 28, T-20-S, R-38-E, J
Lea County, New Mexico

RE: Application to Downhole Commingle C-107-A

## **Offset Operator:**

Conoco, Inc. is the only offset operator



### STATE OF NEW MEXICO

DHC-1840

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

# OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

3/11/98

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501		
RE: Proposed:  MC DHC NSL NSP SWD WFX PMX		
Gentlemen:		
I have examined the application for the:  Conoco Inc Werren Unit Operator Lease & Well No. Unit	#108-J S-T-R	28·20s-38e
and my recommendations are as follows:		
Mone.		
Yours very truly,		
Mis Williams		

Chris Williams

Supervisor, District 1