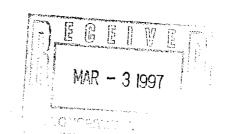
DHC 3/24/97

## **EXON** COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION OPERATIONS INTEGRITY



February 26, 1997

Downhole Commingling Wantz Federal No. 2 Unit Letter O Section 1, T21S, R37E Lea County, New Mexico

Mr. William J. LeMay Director Oil Conservation Division 2040 Pacheco Santa Fe, New Mexico 87505

Dear Mr. LeMay:

Exxon Corporation requests administrative approval for Downhole Commingling (Rule 303C) for the Wantz Federal Well No. 2. The information required is attached.

If you have any questions, please call me at (915) 688-6782.

Sincerely,

Alex M. Correa

AMC:mym Attachment 2/wantz1.doc



POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION
OPERATIONS INTEGRITY

February 19, 1997

Downhole Commingling Wantz Federal No. 2 Section 1, T21S, R37E Lea County, New Mexico

Offset Operators

#### Gentlemen:

Exxon Corporation is requesting administrative approval for Downhole Commingling in the Wantz Federal Well No. 2. Attached is a copy of the information that will be filed with the New Mexico Oil Conservation Division.

If you have any objection to this request, it must be filed, in writing with the New Mexico Oil Conservation Division in Santa Fe, within twenty days from the date this notice was mailed. If you have any questions, please call me at (915) 688-6782.

Sincerely,

Alex M. Correa

AMC:mym Attachment 2/wantz2.doc



#### **OFFSET OPERATORS**

# EXXON CORP. WANTZ FEDERAL NO. 2 SECTION 1, T21S, R37E LEA COUNTY

Cross Timbers Operating Attn.: Land Department 810 Houston St. Suite 2000 Fort Worth, Texas 76102

Elliott Oil Co. P.O. Box 1355 Roswell, New Mexico 88202-1355

AMC:mym 2/wantz.doc

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irse side?	SENDER:  Complete items 1 and/or 2 for additional services.  Complete items 3, 4a, and 4b.  Print your name and address on the reverse of this form so that we card to you.		I also wish to receive the following services (for an extra fee):			
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ADDRESS completed on the reverse	■Write "Return Receipt Requested" on the mailpiece below the articl ■The Return Receipt will show to whom the article was delivered an	e number. d the date	1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.  umber  (			
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Ē	ATTN: LAND DEPARTMENT	4b. Service	Гуре			
ن ان	810 HOUSTON ST.	☐ Registere	ed 🗆 Certified			
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O	FORT WORTH, TEXAS 76102		ceipt for Merchandise			
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Ħ	6. Signature (Addressee or Agent)	ţ	•			
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<u>67</u>	PS Form <b>3811</b> , December 1994	<u> </u>	Domestic Return Receipt			
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DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

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

#### **OIL CONSERVATION DIVISION**

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

APPROVAL PROCESS:

\_\_\_ Administrative \_\_\_Hearing

EXISTING WELLBORE

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

1000 Rio Brazos Rd, Aztec, NM 87410-1693

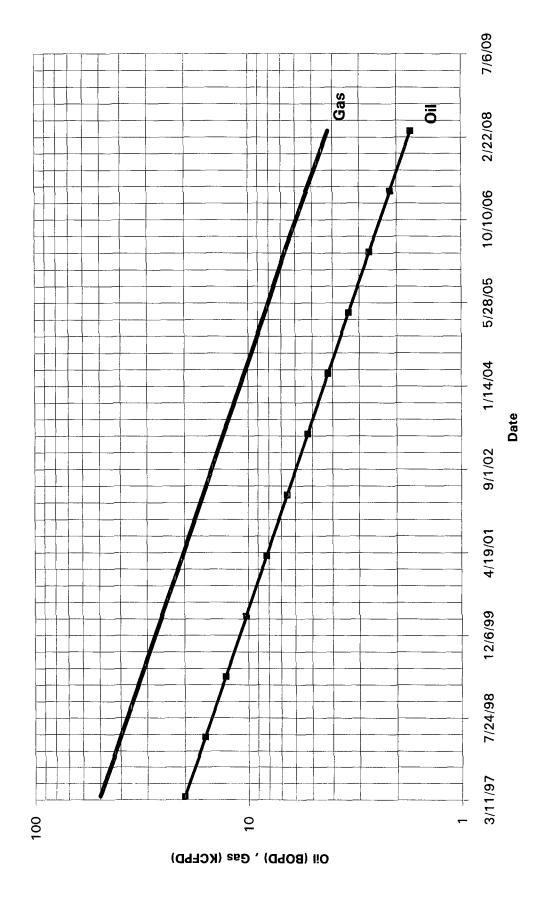
APPLICATION FOR DOWNHOLE COMMINGLING

Exxon CORP., P.O. BOX 1600 ML 14, MIDLAND, TX 79702, ATTN.

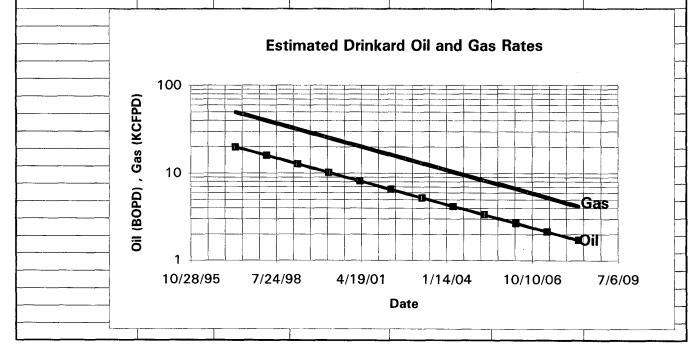
X YES \_\_\_ NO ALEX CORREA (915)688-

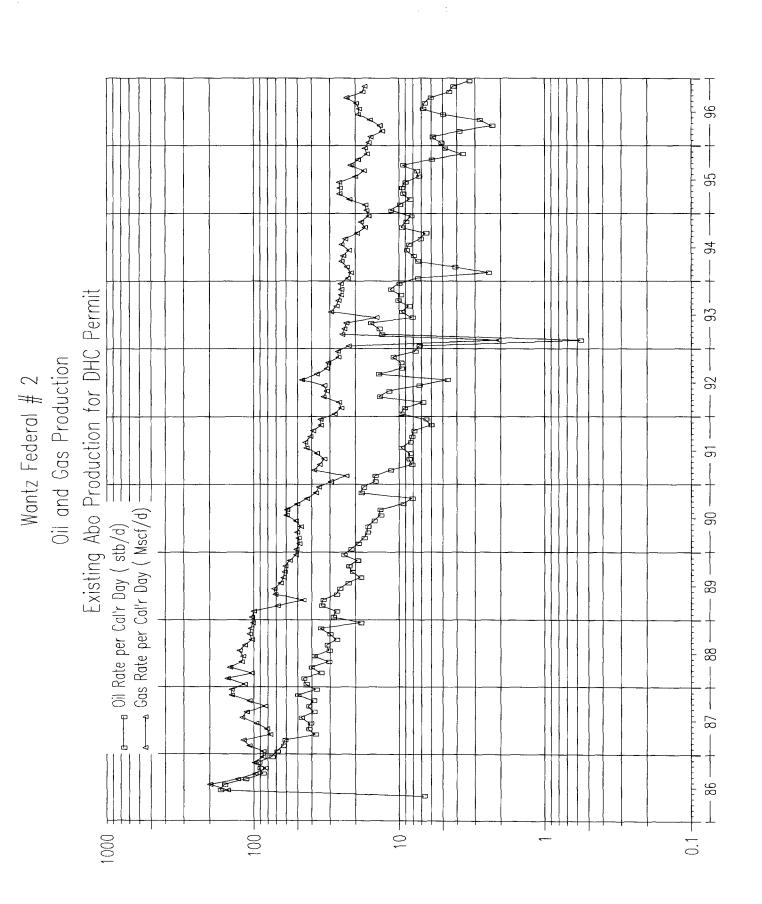
Wantz Federal	2	Sec 1 T21 S R37E	Lea								
Lease		r Sec - Twp - Rge Specing U	County Init Lease Types: (check 1 or more)								
OGRID NO. 007673 Property Code	004210 API NO. 300		K , State, (and/or) Fee								
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone - N/A	Lower Zone								
Pool Name and     Pool Code	Drinkard		WANTZ; <b>Ab</b> o								
Top and Bottom of     Pay Section (Perforations)	6802~6967		7098–7745								
Type of production     (Oil or Gas)	0i1		0il								
Method of Production     (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift								
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) 400 psia	a.	a. 200 psia								
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. <sup>(Original)</sup> 2950 psia	b.	b. 3200 psia								
6. Oil Gravity ( <sup>°</sup> API) or Gas BTU Content	39.9°		40°								
7. Producing or Shut-In?	New Zone		Producing								
Production Marginal? (yes or no)	No		No								
If Shut-In, give date and oil/gas/water rates of last production  Note: For new zones with no production history, applicant shall be required to steach production	Date: Retes: Not Applicable	Date: Rates:	Dete: Not Applicable								
estimates and supporting data  If Producing, give date endoil/ges/ water rates of recent test (within 60 days)	Date: New Zone	Date: Rates:	Dete: 9/16/96 Rates: 4/19/2 BOPD/KCFPD/BWPD								
8. Fixed Percentage Allocation Formula -% for each zone	OII: 76 % Gas: 78 %	Oil: Gas: %	Oii: 24 % Gas: 22 %								
If allocation formula is based to submit attachments with supplements.	upon something other than cu porting data and/or explaining	rrent or past production, or is b method and providing rate pro	ased upon some other method ections or other required data								
<ol> <li>Are all working, overriding, as If not, have all working, overs Have all offset operators been</li> </ol>	nd royalty interests identical in riding, and royalty interests be given written notice of the pr	n all commingled zones? sen notified by certified mail? oposed downhole commingling?	X Yes — No Yes — No X Yes — No								
11. Will cross-flow occur?	es X No. If yes are fluids		not be damaged will any cros								
12. Are all produced fluids from a	III commingled zones compatit	ole with each other? X	Yes No								
13. Will the value of production b											
	Management has been notific	ed in writing of this application.	A_YesNo								
15. NMOCD Reference Cases for	Rule 303(D) Exceptions:	ORDER NO(S).									
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.  * 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	and belief.								
SIGNATURE // laute f	J. C	TITLE PROJECT ENGINE	ER DATE 2/12/97								
TYPE OR PRINT NAMEMAT-	THEW PERKINS	TELEPHONE NO. (	915   688 - 6773								

**Estimated Drinkard Oil and Gas Rates** 



IP (BOPD)	20				5oil/9%	2200 GOR
GOR	3000					
Decline (%/yr)	20					
			Drinkard Oil	Drinkard Gas	Abo Oil	Abo Gas
		4/1/97	20	50000	5	11000
		4/1/98	16	40000	4.55	10010
		4/1/99	12.8	32000	4.1405	9109.1
		4/1/00	10.24	25600	3.767855	8289.281
		4/1/01	8.192	20480	3.42874805	7543.24571
		4/1/02	6.5536	16384	3.12016073	6864.353596
		4/1/03	5.24288	13107.2	2.83934626	6246.561772
		4/1/04	4.194304	10485.76	2.5838051	5684.371213
		4/1/05	3.3554432	8388.608	2.35126264	5172.777804
		4/1/06	2.68435456	6710.8864	2.139649	4707.227801
		4/1/07	2.147483648	5368.70912	1.94708059	4283.577299
		4/1/08	1.717986918	4294.967296	1.77184334	3898.055342
Abo Oil %	24.37%			771		
Abo Gas %	22.10%					
Drinkard Oil %	75.63%					
Drinkard Gas %	77.90%					





District 1 PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease -4 Copies Fee Lease - 3 Copies

District () PO Drawer DD, Artesia, NM 88211-0719

District III

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

☐ AMENDED REPORT

1000 Rio Brasos Rd. , Aztec, NM 87410

District IV PO Box 2088, Sant	a Fe, NM 8750	4-2088			•				LI AMENUEU REPORT		
1	API Numbe 30025295		WELL 2		FOOI CODE 2700	CREAGE DE	DICATION PL	Pool Name Wantz;Abo			
4 Proper	ty Code 1210	5		0.2	Pro	perty Name z Federal		6 Well Number			
	ID No. 7673	8	Exxon C	ompany,	U.S.A.	rator Name			9 Elevation 3541 GR		
					"Surface	Location					
UL or lot no. O	Section 1	Township 21 S	Range 37 E	Lot Idn 15	Feet from the 3100	North/South line South	2180	East/West line East	County Lea		
			<sup>11</sup> Boti	tom Ho	le Location	lf Different	From Surfa	ce			
UL or lot no.	Section	Township	Range	Lot (dn	Feet from the	North/South line	Feet from the	Eost/West line	County		
<sup>12</sup> Dedicated Acres	13 Joint o	or Infill 14	Consolidation Co	ode 15	Order No.	<u> </u>					
N	O ALLOWA						INTERESTS HAV D BY THE DIVIS	VE BEEN CONSOLID	ATED		
16	Lot			Lot 14		ot 10	Lot 16	Signature  Date  SURVEYOR  Interpretation of the best of my knowled  Signature  Printed Name  PERMIT  Title  Date  SURVEYOR  I hereby certify that the was plotted from field the me or under my supervand correct to the best of the best	CERTIFICATION  e well location shown on this plat notes of actual surveys made by sisten and that the same is true to f my belief.  SSIPERVISOR		

District 1 PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease -4 Copies Fee Lease - 3 Copies

PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brasos 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT													
3	API Numb 002529			2		Pool Code 19190		Pool Name Drinkard					
4 Propert 004			5			Pro Wantz		6 Well Number 2					
7 OGRII 007	No.		8	Exxon C	ompany	Оре	rator Na				9 Elevation 3541 GR		
- 007													
UL or lot no.	Section 1	. 1		Range	Lot Idn	Surface Feet from the		rth/South line	Feet from the	East/West line	County		
U	0 1 21 S 37 E 15 3100 South 2180  "Bottom Hole Location If Different From Surfo										Lea		
UL or lot no.	Section	Te	ownship	Range	Offi Inc	Feet from the		rth/South line	Feet from the	East/West line	County		
					) 						ŕ		
<sup>12</sup> Dedicated Acres 40	13 Joint	or Infi	14	Consolidation Co	xde [1	5 Order No.							
	) ALLOW	ABLI								VE BEEN CONSOLID	ATED		
		<u> </u>	0	R A NON-	STANDA	ARD UNIT HAS B	EEN .	<u>APPROVED</u>	BY THE DIVI	10.2	OF DIE OATION		
16	Lot	12		1	Lot 11	L	ot 10		Lot 9		CERTIFICATION		
										contained herein is best of my knowled	s true and complete to the		
			ļ							best of my knowled	uge and bener.		
			)					<b>\$</b>	į				
	Lot	13		1	Lot 14	Ĺ	ot 15		Lot 16	<u> </u>	arper		
						,	/			Signature C.H. F	IARPER		
			į		2180'						PERMITS SUPERVISOR		
					1-30-0					Title 1-30-9	17		
						<u> </u>				Date [18			
										I hereby certify that the	CERTIFICATION  well location shown on this plat notes of actual surveys made by		
										me or under my supervi and correct to the best	ision, and that the same is true of my belief.		
										Date of Survey			
						3100'				Signature and Seq of Prof.	essional Surveyor. ANFOO		
				<del></del>						WEN me	20		
										REG (1032	4) (5)		
											4) SOHVEYOR		
										m PROFESSION	A STATE OF THE STA		
										Certificate Number	10304		
										<u> </u>	10021		

## Permits

#### FEB 1 1 1997

Form 3160-5 UNIT (December 1989)  DEPARTMENT BUREAU OF L  SUNDRY NOTICES  Do not use this form for proposals to drill o  Use "APPLICATION FOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: September 30, 1990  5. Lesse Designation and Serial No. LC 065455  6. If Indian, Allottee or Tribe Name				
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation			
1. Type of Well  Oil Well Well Other  2. Name of Operator		8. Well Name and No. MANTZ FEDERAL			
•	: REGULATORY AFFAIRS	9. API Well No.			
3. Address and Telephone No. P. O. BOX 1600 MIDLAND,	TX 79702 (915) 688-6782	3002529597 10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey Descript	ion)	DRINKARD			
3100' FSL & 2180' FEL, S	EC 1, T21S, R37E	11. County or Parish, State			
		LEA			
12. CHECK APPROPRIATE BOX(s	s) TO INDICATE NATURE OF NOTICE, REPORT, OR	OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTIO	N			
Notice of Intent  Subsequent Report	Abandonment  Recompletion  Plugging Back	Change of Plans  New Construction  Non-Routine Fracturing			
Final Abandonment Notice		Water Shut-Off Conversion to Injection COMMINGLE W/WANTZ ABO ts of multiple completion on Well Completion or			
SCALE IS ENCOUNTERED - SET RBP @ 7050', TEST - PERF. DRINKARD APPROX TEST DRINKARD PERFS.	OVER EXISTING ABO PERFS. (7098) TO 2000 # 6802'-6967', AC. W/ APPROX. COMMINGLE DRINKARD & ABO AFTER ORE SCHETCH ATTACHED	3600 GAL. 15% HCL			
14. I hereby certify that the forestoing is to and correct Signed	Alex M. Correa <sub>Title</sub> <u>Sr. Regulatory</u> Specia	list Date 01/29/97			
(This space for Fesch) or State office up (Approved by Approved, if any:	22 PETROLEUM ENGINEER	FEB 0 6 1997			
	owings, and willfully to make to any department or agency of the United Stat				

District | PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease -4 Copies Fee Lease - 3 Copies

District # PO Drawer OD, Artesia, NM 88211-0719

### OIL CONSERVATION DIVISION

PO Box 2088

1000 Rio Brasos Rd. , Aztec, NM 87410 Santa Fe, NM 87504-2088 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code Pool Name API Number Drinkard 3002529597 19190 Property Code Property Name Well Humber Wantz Federal 2 004210 OGRED No. Operator Name Elevation Exxon Company, U.S.A. 3541 GR 007673 <sup>10</sup>Surface Location North/South line Feet from the Feet from the East/West line Section Range Lot Idn County UL or lot no. Township South 3100 0 1 21 S 37 E 15 2180 East Lea "Bottom Hole Location If Different From Surface North/South line Range Lot Idn Feet from the Feet from the East/West line County UL or lot no. Section Township <sup>2</sup> Dedicated Acres Joint or Infill Consolidation Code Order No. 40 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNITL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION Lot 12 Lot 9 Lot 11 Lot 10 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Lot 15 Lot 16 Lot 13 Lot 14 C.H. HARPER Wantz Federal No. 2 PERMITS SUPERVISOR 2180' Title Date SURVEYOR 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 belief. Date of Survey 3100, HEH MEXICO REGIST 1032

# WELLBORE SKETCH-AND WELL HISTORY

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Bureau of Land Management Roswell District 2909 West Second Street Roswell, New Mexico 88201 505-627-0272

# Off-Lease Measurement, Storage, and Surface Commingling Conditions of Approval

Approval of surface commingling and off-lease storage and/or measurement is subject to the following conditions of approval:

- 1. This agency shall be notified of any change in sales method or location of the facility.
- 2. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 3. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 4. This approval is subject to like approval by the New Mexico Oil Conservation Division.
- 5. Additional wells and/or leases require additional commingling approvals.
- 6. This approval does not constitute right-of-way approval for any off-lease activities. Within 30 days, an application for right-of-way approval must be submitted to the Realty Section if not already done.