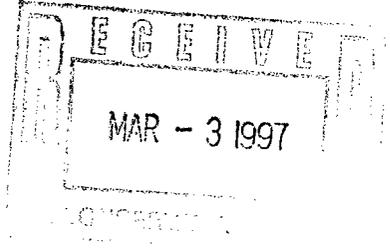


DHC 3/24/97

**EXXON** COMPANY, U.S.A.  
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600



MIDLAND PRODUCTION ORGANIZATION  
OPERATIONS INTEGRITY

1469

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



**EXXON** COMPANY, U.S.A.

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

Is your RETURN ADDRESS completed on the reverse 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 can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CROSS TIMBERS OPERATING  
ATTN: LAND DEPARTMENT  
810 HOUSTON ST.  
SUITE 2000  
FORT WORTH, TEXAS 76102

4a. Article Number

Z 740 404 481

4b. Service Type

- Registered  Certified
- Express Mail  Insured
- Return Receipt for Merchandise  COD

7. Date of Delivery

FEB 24 1997

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X *Eddie Lopez*

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse 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 can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
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I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

ELLIOTT OIL CO.  
P.O. BOX 1355  
ROSWELL, NEW MEXICO  
88202-1355

4a. Article Number

Z 740 404 482

4b. Service Type

- Registered  Certified
- Express Mail  Insured
- Return Receipt for Merchandise  COD

7. Date of Delivery



5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)

X *[Signature]*

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

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

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410-1893

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

YES  NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

Operator Exxon CORP., P.O. Box 1600 ML 14, MIDLAND, TX 79702, ATTN. ALEX CORREA (915) 688-6782  
Address

Lease Wantz Federal Well No. 2 Unit Ltr. - Sec - Twp - Rge Sec 1 T21S R37E County Lea

OGRID NO. 007673 Property Code 004210 API NO. 30025-29597 Spacing Unit Lease Types: (check 1 or more)  
Federal  State  (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone - N/A	Lower Zone
1. Pool Name and Pool Code	Drinkard		WANTZ; Abo
2. Top and Bottom of Pay Section (Perforations)	6802-6967		7098-7745
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 400 psia	a.	a. 200 psia
	b. (Original) 2950 psia	b.	b. 3200 psia
6. Oil Gravity (° 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 attach production estimates and supporting data  * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: Not Applicable	Date: Rates:	Date: Rates: Not Applicable
	Date: Rates: New Zone	Date: Rates:	Date: 9/16/96 Rates: 4/19/2 BOPD/KCFPD/BWPD
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 76 % Gas: 78 %	Oil: % Gas: %	Oil: 24 % Gas: 22 %

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?  Yes  No  
If not, have all working, overriding, and royalty interests been notified by certified mail?  Yes  No  
Have all offset operators been given written notice of the proposed downhole commingling?  Yes  No

11. Will cross-flow occur?  Yes  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 other?  Yes  No

13. Will the value of production be decreased by commingling?  Yes  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. NMOC 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.

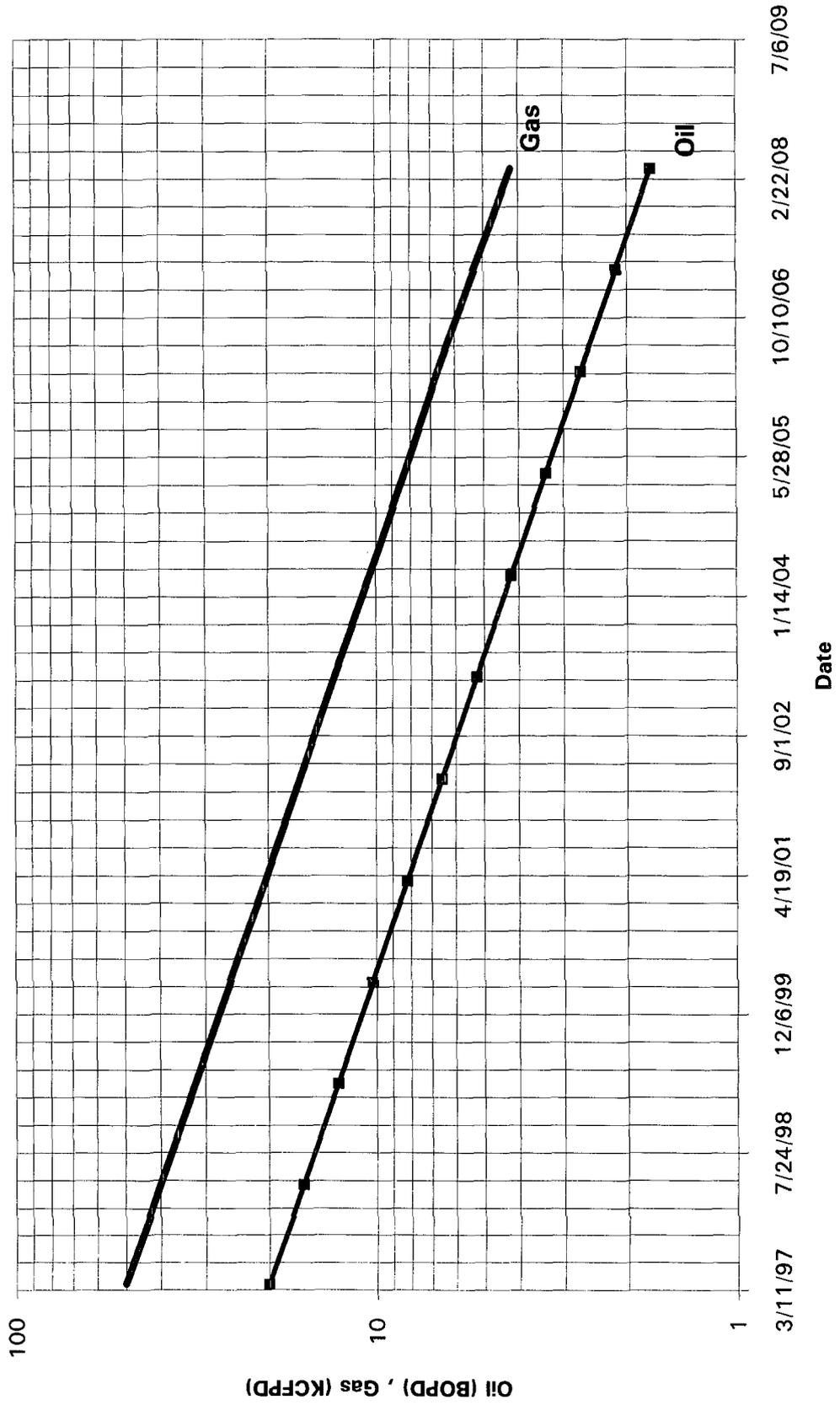
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Matthew Perkins TITLE PROJECT ENGINEER DATE 2/12/97

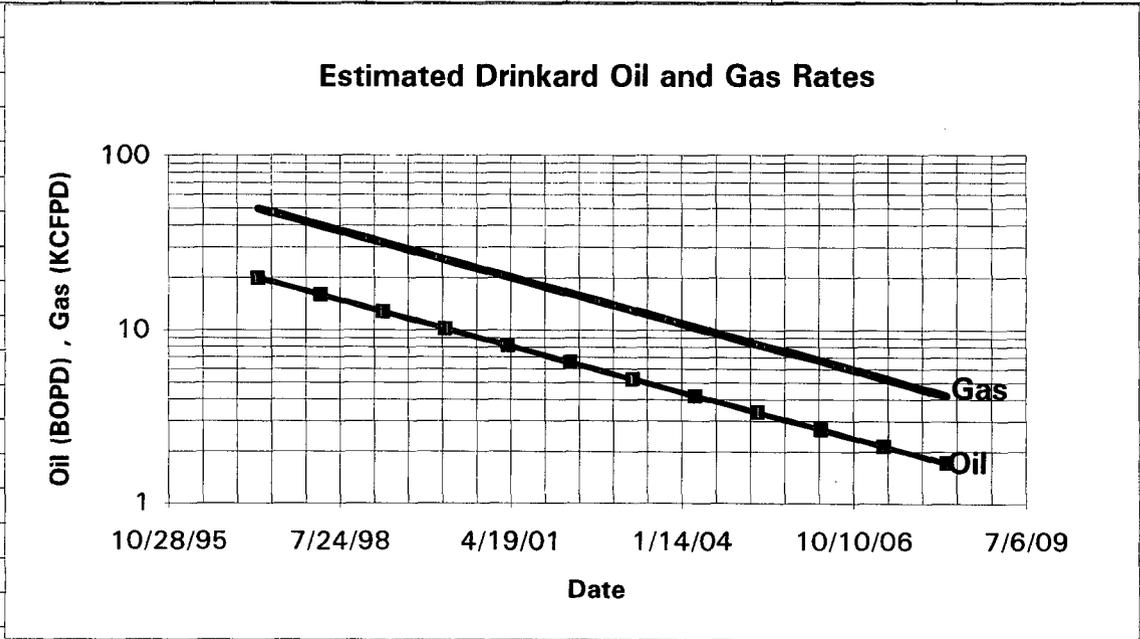
TYPE OR PRINT NAME MATTHEW PERKINS TELEPHONE NO. (915) 688-6773

X

Estimated Drinkard Oil and Gas Rates



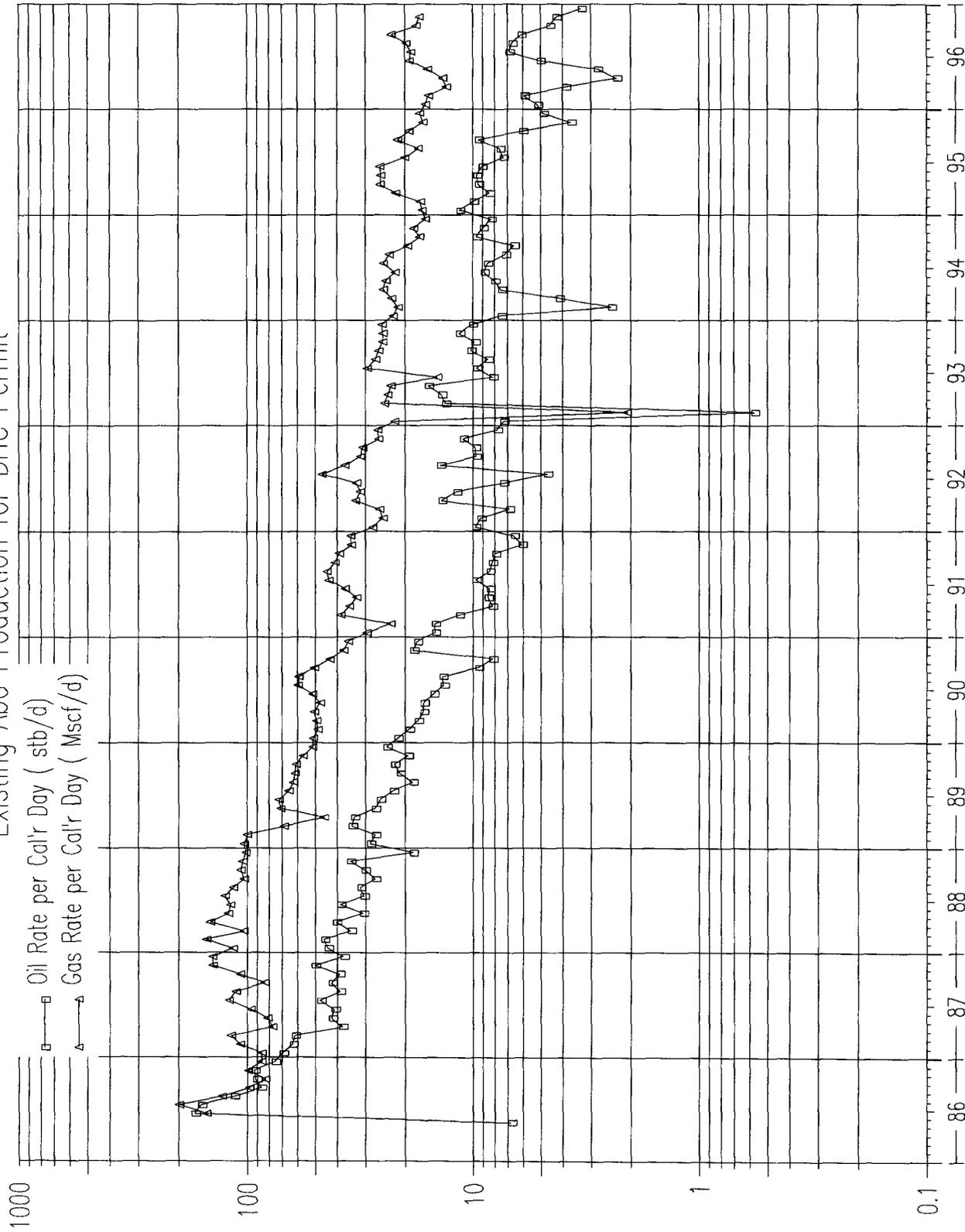
IP (BOPD)	20				5oil/9%	2200 GOR
GOR	3000					
Decline (%/yr)	20					
			Drinkard Oil	Drinkard Gas	Abo Oil	Abo Gas
		4/1/97	20	50000	5	11000
		4/1/98	16	40000	4.55	10010
		4/1/99	12.8	32000	4.1405	9109.1
		4/1/00	10.24	25600	3.767855	8289.281
		4/1/01	8.192	20480	3.42874805	7543.24571
		4/1/02	6.5536	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%					
Abo Gas %	22.10%					
Drinkard Oil %	75.63%					
Drinkard Gas %	77.90%					



# Wantz Federal # 2

## Oil and Gas Production

### Existing Abo Production for DHC Permit



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

District II  
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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number 3002529597	2	Pool Code 62700	3	Pool Name Wantz;Abo
4	Property Code 004210	5	Property Name Wantz Federal	6	Well Number 2
7	OGRID No. 007673	8	Operator Name Exxon Company, U.S.A.	9	Elevation 3541 GR

<sup>10</sup>Surface Location

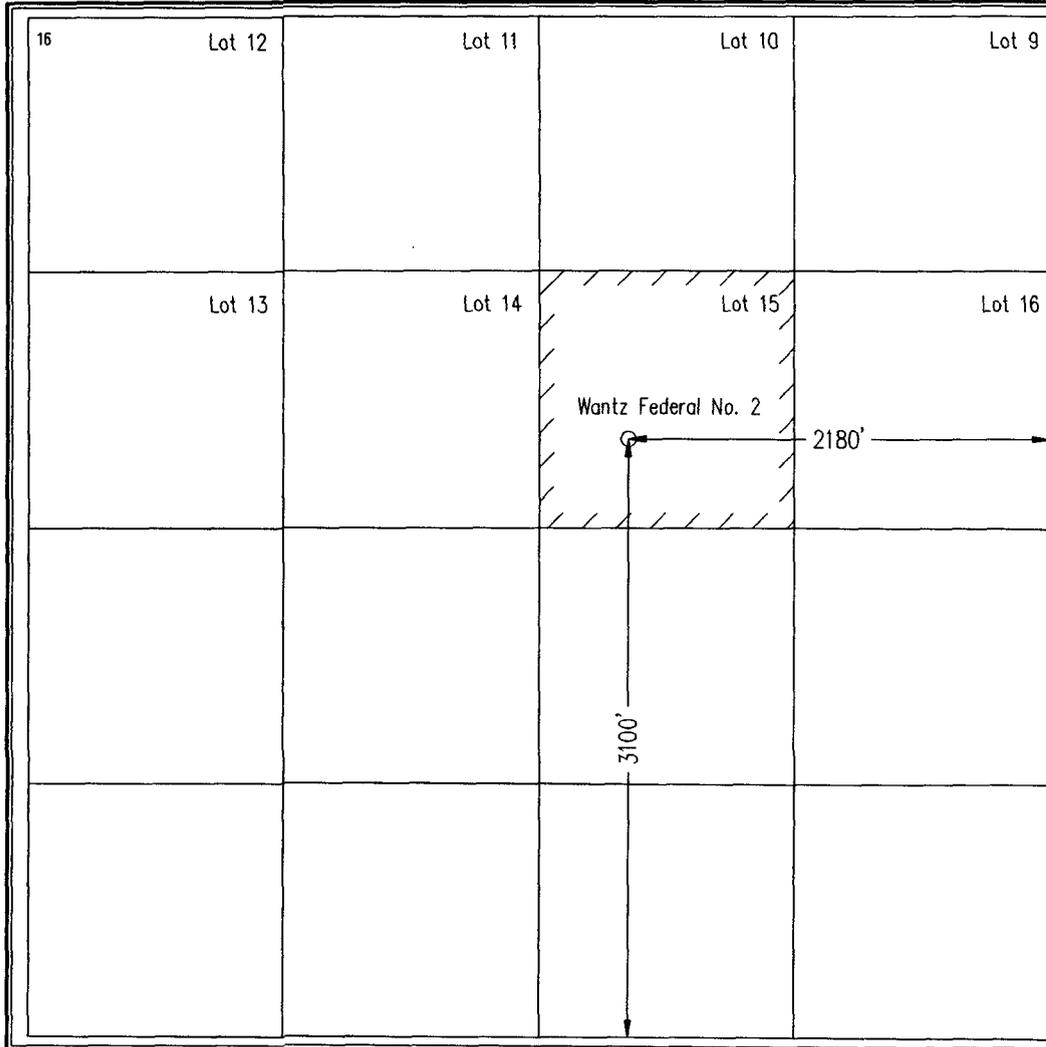
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	1	21 S	37 E	15	3100	South	2180	East	Lea

<sup>11</sup>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

12	Dedicated Acres 40	13	Joint or Infill	14	Consolidation Code	15	Order No.
----	-----------------------	----	-----------------	----	--------------------	----	-----------

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*C.H. Harper* for 2/19/97  
Signature  
C.H. HARPER  
Printed Name  
PERMITS SUPERVISOR  
Title  
Date

18 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.

11-21-85  
Date of Survey  
Signature and Seal of Professional Surveyor.  
MICHAEL L. STANFORD  
NEW MEXICO  
REGISTERED PROFESSIONAL LAND SURVEYOR  
10324  
Certificate Number 10324

5 Miles North of Eunice, New Mexico.

File No. A-0975

District I  
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 II  
PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

PO Box 2088  
Santa Fe, NM 87504-2088

AMENDED REPORT

District III  
1000 Rio Brasos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number 3002529597	2	Pool Code 19190	3	Pool Name Drinkard
4	Property Code 004210	5	Property Name Wantz Federal	6	Well Number 2
7	OGRID No. 007673	8	Operator Name Exxon Company, U.S.A.	9	Elevation 3541 GR

<sup>10</sup>Surface Location

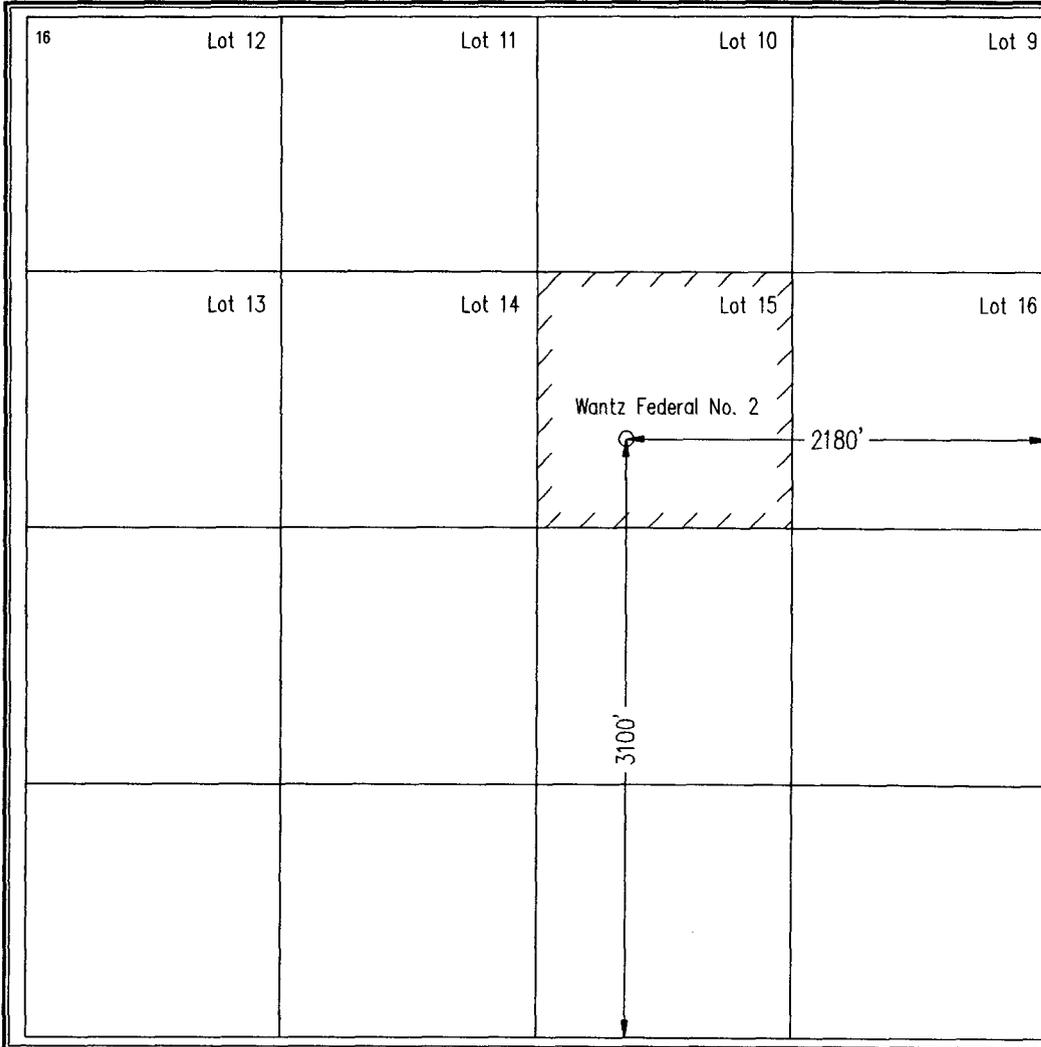
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0	1	21 S	37 E	15	3100	South	2180	East	Lea

<sup>11</sup>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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

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



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*C. H. Harper*  
Signature

C. H. HARPER  
Printed Name

PERMITS SUPERVISOR  
Title

1-30-97  
Date

<sup>18</sup> 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.

11-21-85  
Date of Survey

Signature and Seal of Professional Surveyor.

10324  
Certificate Number

5 Miles North of Eunice, New Mexico.

File No. A-0975A



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

District II  
PO Drawer 00, Artesia, NM 88211-0719

District III  
1000 Rio Brasos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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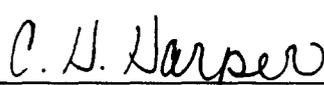
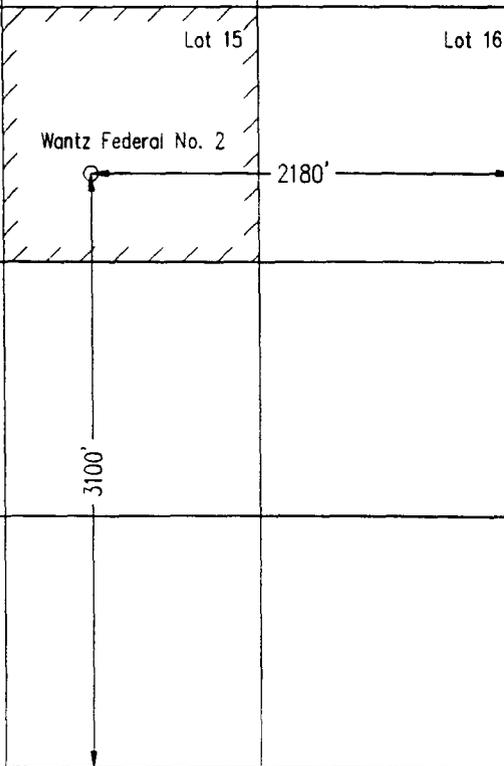
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	1	21 S	37 E	15	3100	South	2180	East	Lea

<sup>11</sup>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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

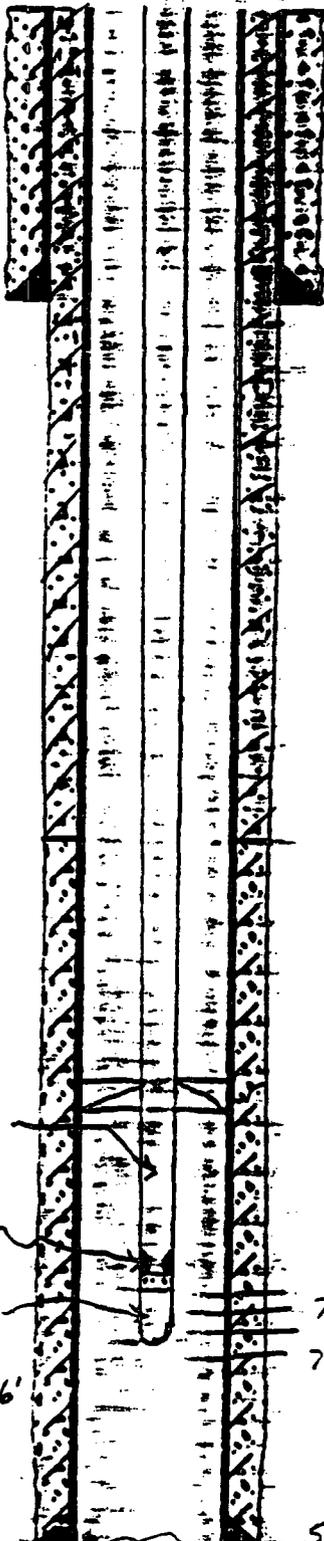
16	Lot 12	Lot 11	Lot 10	Lot 9	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>   Signature <b>C. H. HARPER</b> Printed Name <b>PERMITS SUPERVISOR</b> Title <b>1-30-97</b> Date
	Lot 13	Lot 14	Lot 15 	Lot 16	
					<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i>  <b>11-21-85</b> Date of Survey Signature and Seal of Professional Surveyor.  Certificate Number 10324

# WELLOG SKETCH AND WELL HISTORY

KB 3557.6-12.5 ABOVE GL

LEASE & WELL NAME: Wanta F2A #2  
 FIELD: BDT COUNTY: DE W.M.  
 LOCATION: 300 FSL 2186 TEL SECT-T-115 R37E

DATE: \_\_\_\_\_ BY: \_\_\_\_\_ REV: 7/20/99



HOLE SIZE: 12 1/2"  
 TOG: Surf

9 5/8" - 1524'  
 CMT 800 SX  
 circ 194 SX

HOLE SIZE: 7 7/8"  
 TOG: Surface

Before

7098' A60  
7745'

5 1/2" - 7805'  
 CMT 2400 SX  
 circ 10 SX

## CASING RECORD

### SURFACE CASING

O.D.	WF/FT	GRADE	SET AT
<u>9 5/8</u>	<u>24</u>	<u>K855</u>	<u>1524'</u>

### PRODUCTION CASING

<u>5 1/2</u>	<u>15.5 FT</u>	<u>K855</u>	<u>7745'</u>
	<u>4-14#</u>		

### TUBINGS

NO.	ITS.	O.D.	THD.	TYPE	W/WT	GRADE	SET AT
<u>251</u>		<u>2 3/8</u>	<u>8rd</u>	<u>EVE</u>	<u>6.5#</u>	<u>J-55</u>	<u>7376'</u>

### WELL HISTORY

5/86 DTC  
Prof 7098-7745'  
Acids 23000 gal Inhib-NEFE HCl  
PWOP

S.N. 343

1st B.P.

ST 7376'

# WELLBORE SKETCH AND WELL HISTORY

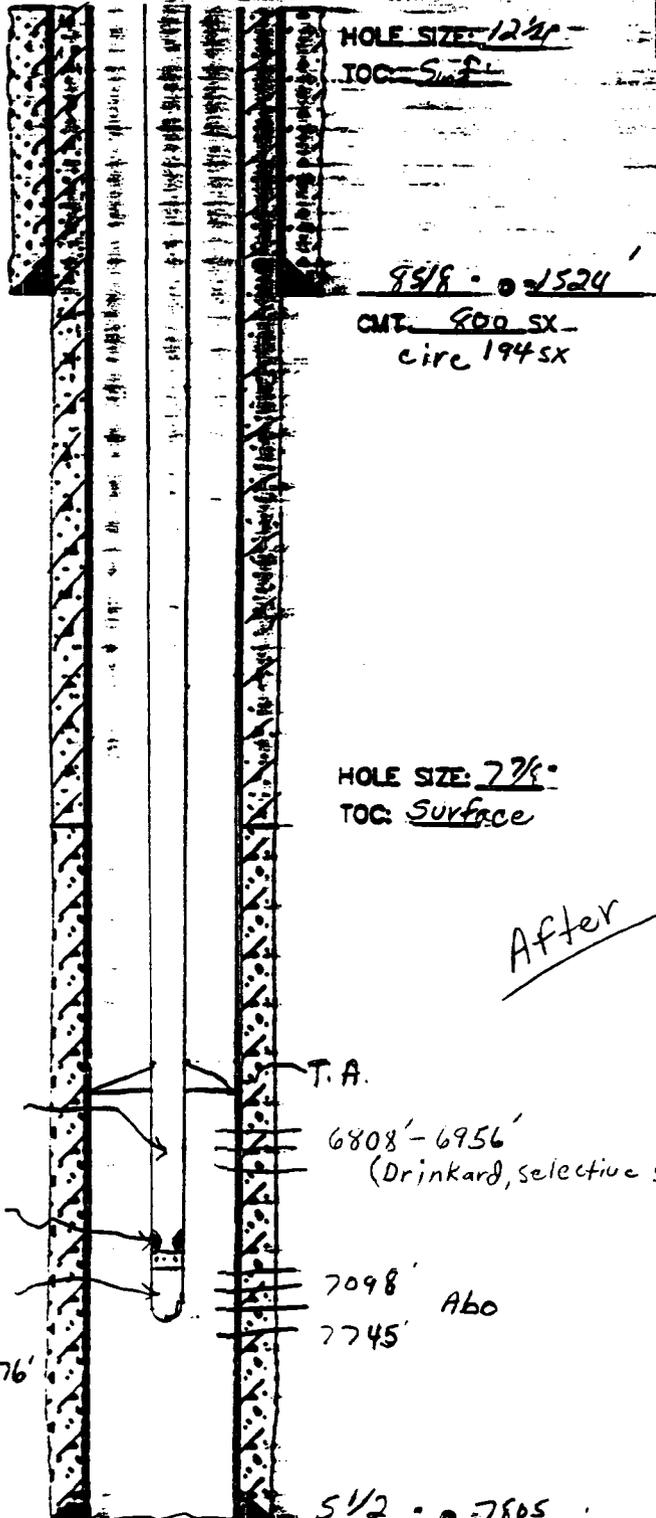
ELEV.: KB 3551.6 - 12.5 ABOVE GL

LEASE & WELL NAME: Wanta F2A #2

FIELD: B.D.T COUNTY: W. Va. STATE: W. Va.

LOCATION: 3100 FST 2188 FEL Sect. 1 Twp. R. 37E

DATE: \_\_\_\_\_ BY: \_\_\_\_\_ REV: 2/70 BY: ...



### CASING RECORD

#### SURFACE CASING

O.D.	WT	CODE	SEAT
8 5/8	24	K-55	1524'

#### PRODUCTION CASING

5 1/2	15.5	K-55	7705'
	7-14#		

### TUBING

NO. JTS.	O.D.	THD.	TYPE	WELL	CODE	SEAT
251	2 3/8	8rd	EVE	6-55	J-55	7376'

### WELL HISTORY

5186 DTC  
Prod 7098-7745'  
Acid 23000 gal Inhib NEFE HCl  
PLWOP

ORD 7758

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.