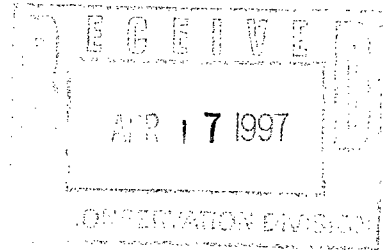


DHC 5/7/97

Mid-Continent Region  
Production United States**Marathon  
Oil Company**P.O. Box 2409  
Hobbs, NM 88241-2409  
Telephone 505/393-7106Certified Mail  
P 622-717 048

April 11, 1997

Mr. David Catanach  
Oil Conservation Department  
Energy and Minerals Department  
2040 S. Pacheco  
Santa Fe, New Mexico 87505

RE: **Request for Exception to Rule 303-A**  
**Downhole Commingling**  
**Lou Worthan Well No. 13**  
**Unit Letter C, 330' FNL & 2080' FWL**  
**Section 11, T-22-S, R-37-E**  
**Drinkard, Wantz Abo and Wantz Granite Wash Pools**  
**Drinkard Field**  
**Lea County, New Mexico**

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Drinkard, Abo and Granite Wash pools in Lea County, New Mexico.

The Drinkard and Granite Wash have been downhole commingled since April 1993 and are reaching the producible economic limit. A recent workover isolated the Granite Wash below a bridge plug. Next pay was added in the Drinkard and Abo zones. Currently production is from only the Drinkard and Abo, but if application is approved the bridge plug will be removed. By downhole commingling the production from the three zones, production will be realized that could not economically justify the cost of equipment to separate the zones. Rod pumping equipment will be utilized to keep the PBHP as low as possible, preventing crossflow.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please contact me at (505) 393-7106, ext 201.

Sincerely,

*Thomas P Kacir*Thomas P. Kacir  
Production EngineerTPK/dbc  
Enclosure

A subsidiary of USX Corporation

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. NMOCD Reference Cases for Rule 303(C) 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 Thomas P Kacir TITLE Production Engineer DATE 4/11/97TYPE OR PRINT NAME Thomas P. Kacir TELEPHONE NO. ( 505 ) 393-7106

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

## DISTRICT II

811 South First St., Artesia, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429Form C-107-A  
New 3-12-96

## APPROVAL PROCESS:

\_\_\_ Administrative \_\_\_ Hearing

## EXISTING WELLBORE

\_\_\_ YES \_\_\_ NO

## APPLICATION FOR DOWNHOLE COMMINGLING

Marathon Oil Company PO Box 2409 Hobbs, New Mexico 88240  
Operator AddressLou Worthan 13 C 11 T-22-S R-37-E Lea  
Lease Well No. Unit Ltr. - Sec. - Twp. - Rge. County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 014021 Property Code 6488 API NO. 30-025-24943 Federal \_\_\_ State X (and/or) Fee \_\_\_

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Drinkard 19190	Wantz Abo 62700	Wantz Granite Wash 62730
2. Top and Bottom of Pay Section (Perforations)	6244-6471'	6564-7070'	7115-7211'
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 350 psia b. (Original) 1870 psi (1975)	a. 630 psia b. 2140 psi (1975)	a. 460 psia b. 2770 psi (1975)
6. Oil Gravity ( $^{\circ}$ API) or Gas BTU Content	1272	1246	1265
7. Producing or Shut-In?	Producing	Producing	Shut-in Currently below BP
Production Marginal? (yes or no)	Yes	Yes	Yes
* 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	Date: Rates:	Date: Rates:	Date: 12-01-96 Rates: 0 / 144 / 0
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 04-02-97 Rates: 0.5 / 73 / 4.7	Date: 04-02-97 Rates: 4.5 / 448 / 5.3	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 8 % Gas: 11 %	Oil: 69 % Gas: 67 %	Oil: 23 % 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 \_\_\_ No11. 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 \_\_\_ No13. 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. NMOCD Reference Cases for Rule 303(C) 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.)
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- \* 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 Thomas P. Kacir TITLE Production Engineer DATE 4/11/97TYPE OR PRINT NAME Thomas P. Kacir TELEPHONE NO. ( 505 ) 393-7106



P.O. Box 2409  
Hobbs, NM 88241-2409  
Telephone 505/393-7106

Certified Mail  
P 622 717 049

April 11, 1997

Mr. Pete Martinez  
Commissioner of Public Lands  
State Office Building  
P.O. Box 1148  
Santa Fe, New Mexico 87504

**RE: Request for Exception to Rule 303-A  
Downhole Commingling  
Lou Worthan Well No. 13  
Unit Letter C, 330' FNL & 2080' FWL  
Section 11, T-22-S, R-37-E  
Drinkard, Wantz Abo and Wantz Granite Wash Pools  
Drinkard Field  
Lea County, New Mexico**

Dear Mr. Martinez:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Drinkard, Abo and Granite Wash pools in Lea County, New Mexico.

The Drinkard and Granite Wash have been downhole commingled since April 1993 and are reaching the producible economic limit. A recent workover isolated the Granite Wash below a bridge plug. Next pay was added in the Drinkard and Abo zones. Currently production is from only the Drinkard and Abo, but if application is approved the bridge plug will be removed. By downhole commingling the production from the three zones, production will be realized that could not economically justify the cost of equipment to separate the zones. Rod pumping equipment will be utilized to keep the PBHP as low as possible, preventing crossflow.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please contact me at (505) 393-7106, ext 201.

Sincerely,

A handwritten signature in cursive script that reads 'Thomas P. Kacir'.

Thomas P. Kacir  
Production Engineer

TPK/dbc  
Enclosure

**REQUEST FOR EXCEPTION TO RULE 303-A**

**Lou Worthan Well No. 13**

**Drinkard Field**

**A: Operator**

Marathon Oil Company  
P.O. Box 2409  
Hobbs, New Mexico 88240-2409

**B: Lease Name and Well Number**

Lou Worthan Well No. 13  
Unit Letter C, 330' FNL & 2080' FWL  
Section 11, T-22-S, R-37-E  
Lea County, New Mexico  
Drinkard: Drinkard, Wantz Abo, Wantz Granite Wash Pools

**C: Plats and Offset Operators**

Attached

**D: C-116's**

Attached

**E: Production Decline Curves**

Attached

**F: Estimated Bottomhole Pressures**

	Current	Original (mid 1970's)
Drinkard	350 psi	1870 psi
Wantz Abo	630 psi	2140 psi
Wantz Granite Wash	460 psi	2770 psi

**G: Product Characteristics**

Previous commingling of these zones by Marathon and other operators in this area have shown that the produced fluids are compatible and commingling will not cause formation damage.

**H: Value**

Marathon receives the same price for product from these zones and value will not be adversely affected.

**I: Production Allocation**

<u>POOL</u>	<u>BOPD</u>	<u>MCFD</u>	<u>BWPD</u>	<u>Estimated Methods</u>
Drinkard	0.5	73	4.7	Post Workover Production
Wantz Abo	4.5	449	5.3	Post Workover Production
Wantz Granite Wash	<u>1.5</u>	<u>144</u>	<u>0.3</u>	Pre-Workover Gas Allocated Production
Total	6.5	666	10.3	

Drinkard and Abo liquid rates are based upon swab and flowing tests during the workover.  
Granite Wash liquid rates are averages from the last quarter (1996) of its allocated production.

<u>Allocated Percentages</u>	<u>Oil %</u>	<u>Gas %</u>	<u>Water %</u>
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Pre-workover Administrative Order No. DHC-884

Drinkard	0	25	0
Wantz Abo	N/A	N/A	N/A
Wantz Granite Wash	<u>100</u>	<u>75</u>	<u>100</u>
Total	100	100	100

Post-workover utilizing above production

Drinkard	8	11	46
Wantz Abo	69	67	51
Wantz Granite Wash	<u>23</u>	<u>22</u>	<u>3</u>
Total	100	100	100

**J: Ownership**

Ownership of all zones is common and correlative rights will not be compromised.

**K: Offset Operator Notification**

By copy of this letter we are notifying all offset operators (see list, Item C) of the proposed commingling, by certified mail.

## Production Data

For informational use only

### Wantz Granite Wash - Allocated Data

Date	Monthly Oil	Monthly Gas	Monthly Water
	Bbls	MCF	Bbls
Oct 96	26	3671	0
Nov 96	116	3874	23
Dec 96	0	4195	0

Drinkard Field  
Lea County, N.M.

1 mile

32025

BLK. A-39

T 22 S

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Drinkard Field

Lea County, N.M.

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**OFFSETTING OPERATORS**  
**Lou Worthan Well No. 13**  
**UL "C", 330' FNL, 2080' FWL**  
**Section 11, T-22-S, R-37-E**  
**Lea County, New Mexico**  
**Drinkard Field**

Exxon Corporation  
P.O. Box 1600  
Midland, Texas 79702

John H. Hendrix Corp.  
223 West Wall, Ste. 525  
Midland, Texas 79701

Oxy USA Inc.  
P.O. Box 50250  
Midland, Texas 79705

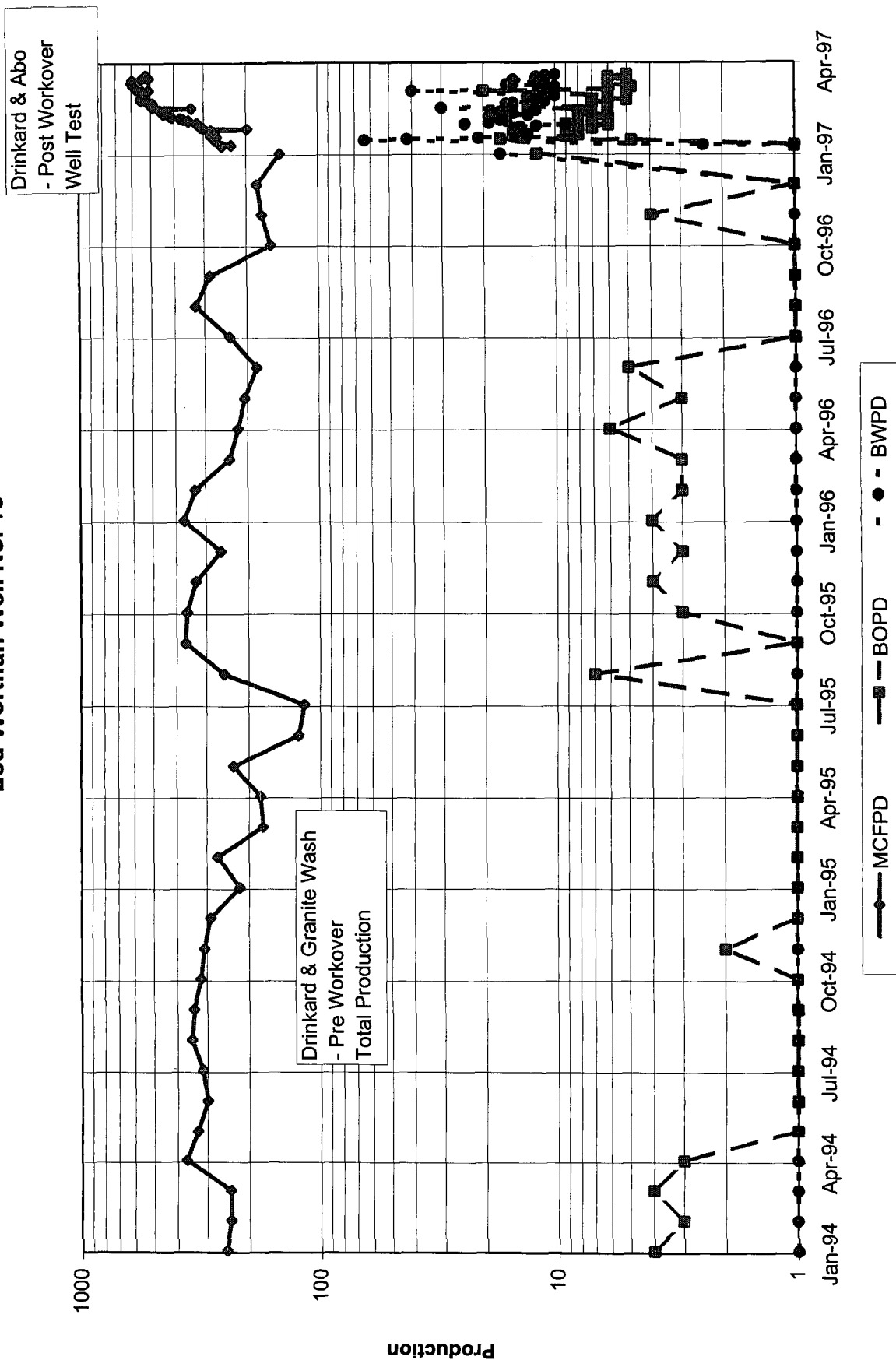
Texaco Exploration and Production Company, Inc.  
P.O. Box 3109  
Midland, Texas 79702

Chevron USA Inc.  
P.O. Box 1150  
Midland, Texas 79702

Collins and Ware  
508 W. Wall, Ste. 1200  
Midland, Texas 79701

Titan Resources I Incorporated  
500 W. Texas, Ste. 500  
Midland, Texas 79701

# Lou Worthan Well No. 13



Sec. 11, T-22-S, R-37-E  
330' FNL, 2080' FWL

Drinkard/Abo/Granite Wash DHC Application

4/11/97

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-116  
Revised 1/1/89

## OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

### GAS - OIL RATIO TEST

Operator <b>Marathon Oil Company</b>		Pool <b>Drinkard / Wantz Granite Wash</b>		County <b>Lea</b>										
Address <b>P.O. Box 2409, Hobbs, NM 88240</b>		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CUFT/BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
Lou Worthan	13	C	11	22	37	12/01/96		Csg45		24	0	0	192	N/A
Zone Oil% Gas%														
Drinkard 0 25											0	0	48	N/A
W Gran Wash 100 75											0	0	144	N/A
FOR INFORMATION ONLY														

#### Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60°F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

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

*Thomas P. Kacir*  
Signature

Tom P. Kacir Production Engineer

Printed name and title

April 11, 1997

(See Rule 301, Rule 1116 & appropriate pool rules.)

Date

393-7106

Telephone No.

Submit 2 copies to Appropriate  
District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116  
Revised 1/1/89

### GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool Drinkard / Wantz Abo		County Lea										
Address P.O. Box 2409, Hobbs, NM 88240		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW- ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL	
		U	S	T						R	WATER BBL.S.	OIL BBL.S.		GAS M.C.F.
Lou Worthan	13	C	11	22	37	4/2/97		Csg60		24	10	5	522	104,400
Zone Oil% Gas%														
Drinkard 10 14											4.7	0.5	73	146,000
Wantz Abo 90 86											5.3	4.5	449	99,778
FOR INFORMATION ONLY														

#### Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

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

*Tom P. Kacir*  
Signature

Tom P. Kacir Production Engineer

Printed name and title

April 11, 1997

Date

393-7106

Telephone No.

State of New Mexico  
Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**  
**P.O. Box 2088**  
**Santa Fe, NM 87504-2088**

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

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

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-025-24943</b>		<sup>2</sup> Pool Code <b>19190</b>		<sup>3</sup> Pool Name <b>Drinkard Gas</b>	
<sup>4</sup> Property Code <b>6488</b>		<sup>5</sup> Property Name <b>Lou Worthan</b>			<sup>6</sup> Well Number <b>13</b>
<sup>7</sup> OGRID No. <b>014021</b>		<sup>8</sup> Operator Name <b>Marathon Oil Company</b>			<sup>9</sup> Elevation <b>3362'</b>

<sup>10</sup> Surface Location									
UL or lot no. <b>C</b>	Section <b>11</b>	Township <b>22-S</b>	Range <b>37-E</b>	Lot. Idn	Feet from the <b>330</b>	North/South Line <b>North</b>	Feet from the <b>2080</b>	East/West line <b>West</b>	County <b>Lea</b>

<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 <b>40</b>	<sup>13</sup> Joint or Infill <b>Y</b>	<sup>14</sup> Consolidation Code <b>NA</b>	<sup>15</sup> Order No. <b>NA</b>						

**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**

	<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.	
	<u>Thomas P. Kacir</u> Signature <b>Thomas P. Kacir</b> Printed Name <b>Production Engineer</b> Title <b>4/11/97</b> 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.	
	Date of Survey Signature and Seal of Professional Surveyer: Certificate Number	

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, NM 87504-2088

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-24943	<sup>2</sup> Pool Code 62700	<sup>3</sup> Pool Name Wantz Abo Gas
<sup>4</sup> Property Code 6488	<sup>5</sup> Property Name Lou Worthan	<sup>6</sup> Well Number 13
<sup>7</sup> OGRID No. 014021	<sup>8</sup> Operator Name Marathon Oil Company	<sup>9</sup> Elevation 3362'

<sup>10</sup> Surface Location									
UL or lot no. C	Section 11	Township 22-S	Range 37-E	Lot. Idn	Feet from the 330	North/South Line North	Feet from the 2080	East/West line West	County 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 Y	<sup>14</sup> Consolidation Code NA	<sup>15</sup> Order No. NA						

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

	<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.	
	Signature Thomas P. Kacir Printed Name Production Engineer Title 4/11/97 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.	
	Date of Survey Signature and Seal of Professional Surveyer:	
	Certificate Number	

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

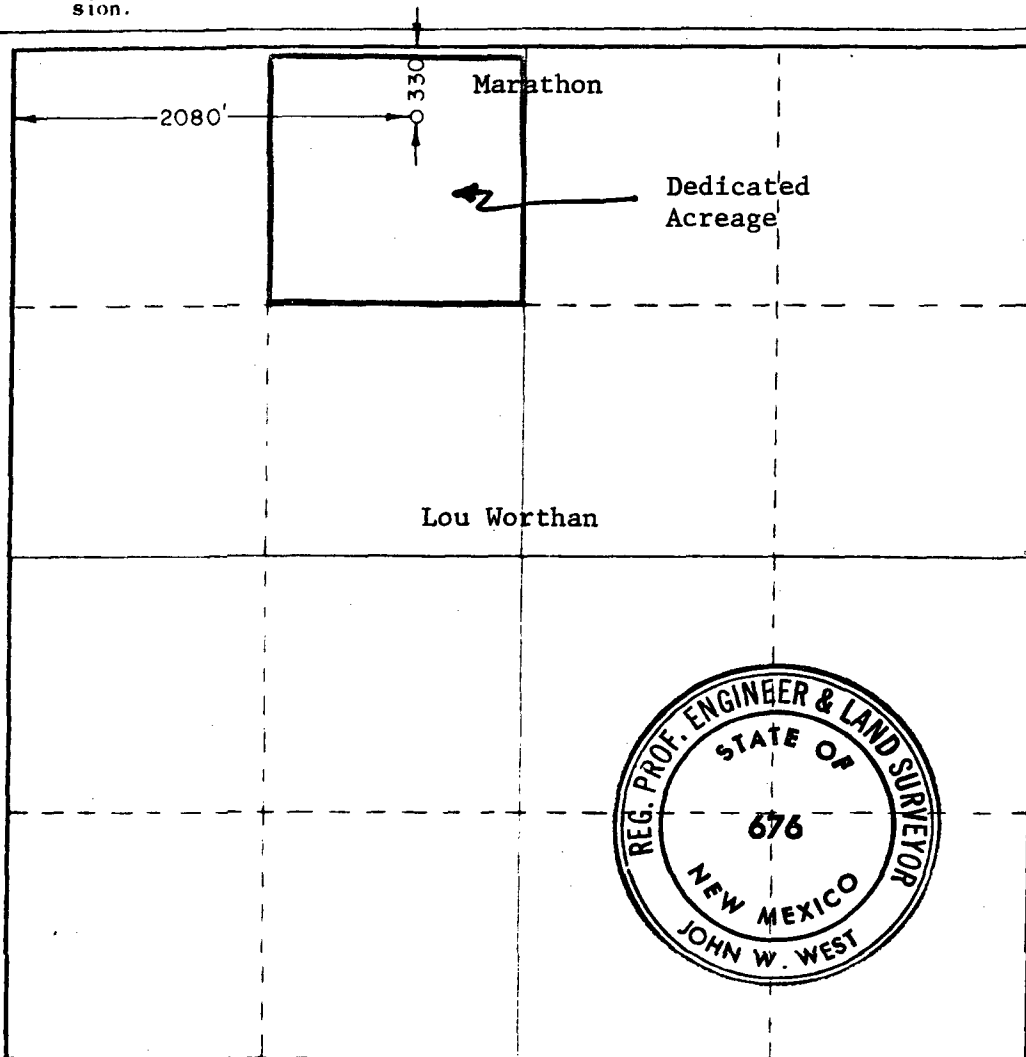
Operator <b>Marathon Oil Company</b>		Lease <b>Lou Wortham</b>		Well No. <b>13</b>
Tract Letter <b>C</b>	Section <b>11</b>	Township <b>22 South</b>	Range <b>37 East</b>	County <b>Lea</b>
Actual well location of well: <b>2080</b> feet from the <b>West</b> line and <b>330</b> feet from the <b>North</b> line				
Ground surface Elev. <b>3362.2</b>	Producing Formation <b>Granite Wash</b>	Pool <b>Wantz Granite Wash</b>	Dedicated Acreage: <b>40</b> Acres	

1. Outline the acreage dedicated to the subject 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 necessary.) \_\_\_\_\_

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, eliminating such interests, has been approved by the Commission.



## CERTIFICATION

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

*M. L. Johnston*

Name  
**M. L. Johnston**

Position  
**Petroleum Engineer**

Company  
**Marathon Oil Company**

Date  
**January 1, 1975**

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 Surveyed  
**December 19, 1974**

Registered Professional Engineer and/or Land Surveyor

*John W. West*

Certificate No. **676**

