



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

BRUCE KING  
GOVERNOR

6/15/04

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

DHC-1019

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	<u>  X  </u>
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

<u>Manathon Oil Co.</u>	<u>San Watham #14-A-11-22-37</u>
Operator	Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

---



---



---



---

Yours very truly,

Jerry Sexton  
Supervisor, District 1

/ed



**Marathon  
Oil Company**

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

June 3, 1994

State of New Mexico  
Oil Conservation Division  
Energy and Mineral Department  
Mr. David Catanach  
PO Box 2088  
Santa Fe, NM 87501

RE: REQUEST FOR EXCEPTION TO RULE 303-A  
DOWNHOLE COMMINGLING  
LOU WORTHAN WELL NO. 14  
UNIT A, 520' FNL & 330' FEL  
SECTION 11, T-22-S, R-37-E  
TUBB, DRINKARD AND GRANITE WASH FORMATIONS  
DRINKARD FIELD  
LEA COUNTY, NEW MEXICO

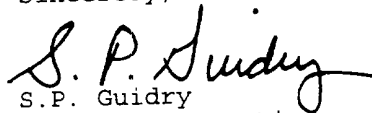
Dear Mr. Catanach:

Marathon Oil Company respectfully requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of the Tubb, Drinkard and Granite Wash formations in the above mentioned well.

Currently, the well is a Tubb producer that is rod pumped. The Drinkard and Granite Wash are isolated below two CIBPs (see attached wellbore sketch). It is proposed to drill out the CIBP, downhole commingle the Tubb, Drinkard and Granite Wash and rod pump all zones. This method of producing the well will ensure maximum drawdown on each formation and recover additional reserves from the Drinkard and Granite Wash and produce all three zones to a lower depletion pressure thus minimizing waste.

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

Sincerely,

  
S.P. Guidry  
Northwest Operations  
Production Superintendent

RDG:SPG/9465/kc

Attachments

# REQUEST FOR EXCEPTION TO RULE 303-A

## LOU WORTHAN WELL NO. 14 DRINKARD FIELD

- (A) Marathon Oil Company  
PO Box 2409  
Hobbs, NM 88240
- (B) Lou Worthan Well No. 14  
Unit A, 520' FNL and 330' FEL  
Section 11, T-22-S, R-37-E  
Lea County, New Mexico  
Commingle Zones: Tubb Oil & Gas  
Drinkard  
Granite Wash
- (C) A plat of the area is attached showing the lease and offset operations. Also attached is a C-102 for each formation.
- (D) The Form C-116 for each of the formations is attached. The allocated production for each pool will be based upon the current and historical production declines along with the latest GOR tests.
- (E) Production curves for both the Tubb, Drinkard and Granite Wash are attached.
- (F) Estimated bottomhole pressure for each zone:
- |              |          |
|--------------|----------|
| Tubb         | 450 psia |
| Drinkard     | 400 psia |
| Granite Wash | 400 psia |
- (G) Marathon is commingling the fluids at the surface and has not encountered operational problems.
- (H) If the downhole commingling is approved, additional reserves will be recovered from the Drinkard and Granite Wash while maximizing recoveries from the Tubb.

(I) Production from the latest GOR test as follows:

<u>FORMATION</u>	<u>OIL (BPD)</u>	<u>GAS (MCFD)</u>	<u>WATER (BPD)</u>
Tubb	2.5	191	0
Drinkard*	0.0	40	0
Granite Wash*	<u>3.1</u>	<u>50</u>	<u>16</u>
TOTAL	<u>5.6</u>	<u>281</u>	<u>16</u>

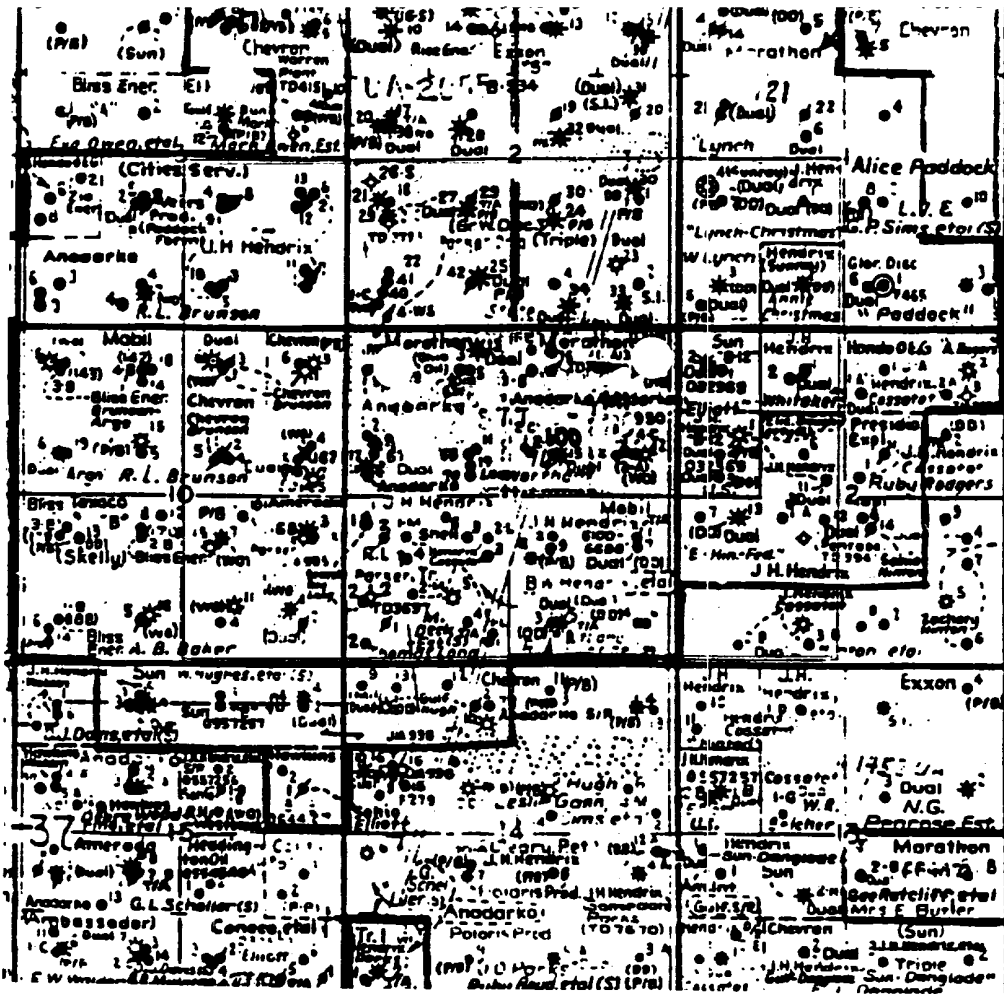
\* Estimated due to shut-in status.

Allocated Percentages should be:

<u>FORMATION</u>	<u>OIL (%)</u>	<u>GAS (%)</u>	<u>WATER (%)</u>
Tubb	44.6	68.0	0
Drinkard	0.0	14.2	100
Granite Wash	<u>55.4</u>	<u>17.8</u>	<u>100</u>
TOTAL	<u>100.0</u>	<u>100.0</u>	<u>100</u>

(J) Ownership of the three pools to be commingled are in common and correlative rights will not be violated.

(K) By copy of this letter, we are notifying all offset operators of the proposed commingling.



T  
22  
S

R 37 E

LAND PLAT  
DRINKARD AREA  
LEA COUNTY, NEW MEXICO

1" = 3000'

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

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 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

API Number 30-025-25255		Pool Code	Pool Name Tubb Oil & Gas
Property Code 006488	Property Name Lou Worthan		Well Number 14
OGRID No. 14021	Operator Name Marathon Oil Company		Elevation 3350' GL

<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
A	11	22S	37E	--	520	North	330	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 N	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

16				520'	11	<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 Rick D. Gaddis Printed Name Petroleum Engineer Title June 2, 1994 Date
				14		
					330'	
						<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>  Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number

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

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 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 30-025-25255		<sup>2</sup> Pool Code 19190		<sup>3</sup> Pool Name Drinkard	
<sup>4</sup> Property Code 006488		<sup>5</sup> Property Name Lou Worthan			<sup>6</sup> Well Number 14
<sup>7</sup> OGRID No. 14021		<sup>8</sup> Operator Name Marathon Oil Company			<sup>9</sup> Elevation 3350' GL

<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
A	11	22S	37E	--	520	North	330	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 N	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

16		<b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>
		<i>Rick D. Gaddis</i> Signature Rick D. Gaddis Printed Name Petroleum Engineer Title June 2, 1994 Date
		<b><sup>18</sup> SURVEYOR CERTIFICATION</b> <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>
		Date of Survey
		Signature and Seal of Professional Surveyer:
		Certificate Number

RECEIVED

JUN 1 1991

AND OVERS  
OFFICE



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

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 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

1 API Number 30-025-25255		2 Pool Code		3 Pool Name Granite Wash	
4 Property Code 006488		5 Property Name Lou Worthan			6 Well Number 14
7 OGRID No. 14021		8 Operator Name Marathon Oil Company			9 Elevation 3350'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	22S	37E	--	520	North	330	East	Lea

11 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 N	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

16		17 OPERATOR CERTIFICATION	
		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
		Signature Rick D. Gaddis Printed Name Petroleum Engineer Title June 2, 1994 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.	
		Date of Survey Signature and Seal of Professional Surveyor:	
		Certificate Number	

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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  
2000 Rio Brazos Rd., Aztec, NM 87410

**GAS - OIL RATIO TEST**

Operator		Pool		Tubb Oil & Gas		County								
Marathon Oil Company		Lea												
Address		TYPE OF TEST - (X)		Completion		Special								
PO Box 2409 Hobbs, NM 88240		<input checked="" type="checkbox"/> S <input type="checkbox"/> F <input type="checkbox"/> L		<input type="checkbox"/>		<input checked="" type="checkbox"/>								
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKESIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Lou Worthan	14	A	11	22S	37E	5/23/94	P	N/A	24	0	40	2.5	191	76,400

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

*Rick D. Gaddis*  
Signature

Rick D. Gaddis, Petroleum Engineer  
Printed name and title  
June 2, 1994 (505) 393-7106  
Date Telephone No.

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

# OIL CONSERVATION DIVISION

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

Operator: Marathon Oil Company  
Address: PO Box 2409 Hobbs, NM 88240  
Pool: Drinkard\*  
County: Lea

## GAS - OIL RATIO TEST

LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	TYPE OF TEST - (X)	CHOKESIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PRODUCTION DURING TEST			GAS - OIL RATIO CU.FT/BBL.	
		U	S	T							R	WATER BBL.	GRAV. OIL		OIL BBL.
Lou Worthan	14	A	11	22S	37E	N/A	F	30	N/A	24	1	40	0	40	N/A

Completion  Scheduled  Special

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

*Rick D. Gaddis*  
Signature  
Rick D. Gaddis, Petroleum Engineer  
Printed name and title  
June 2, 1994 (505) 393-7106  
Date Telephone No.

**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.

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

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**

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

Operator		Pool		County										
Marathon Oil Company		Granite Wash*		Lea										
WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	Completion			Special		
	U	S	T						WATER BBL.S.	PROD. DURING TEST GRAV. OIL	OIL BBL.S.		GAS MCF.	GAS - OIL RATIO CU.FT/BBL.
14	A	11	22S	37E	N/A	30	N/A	24	16	40	3.1	50	16,129	<input checked="" type="checkbox"/>

\*Zone is below CIBP,  
Estimated rates 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.

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

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



Signature

Rick D. Gaddis, Petroleum Engineer

Printed name and title

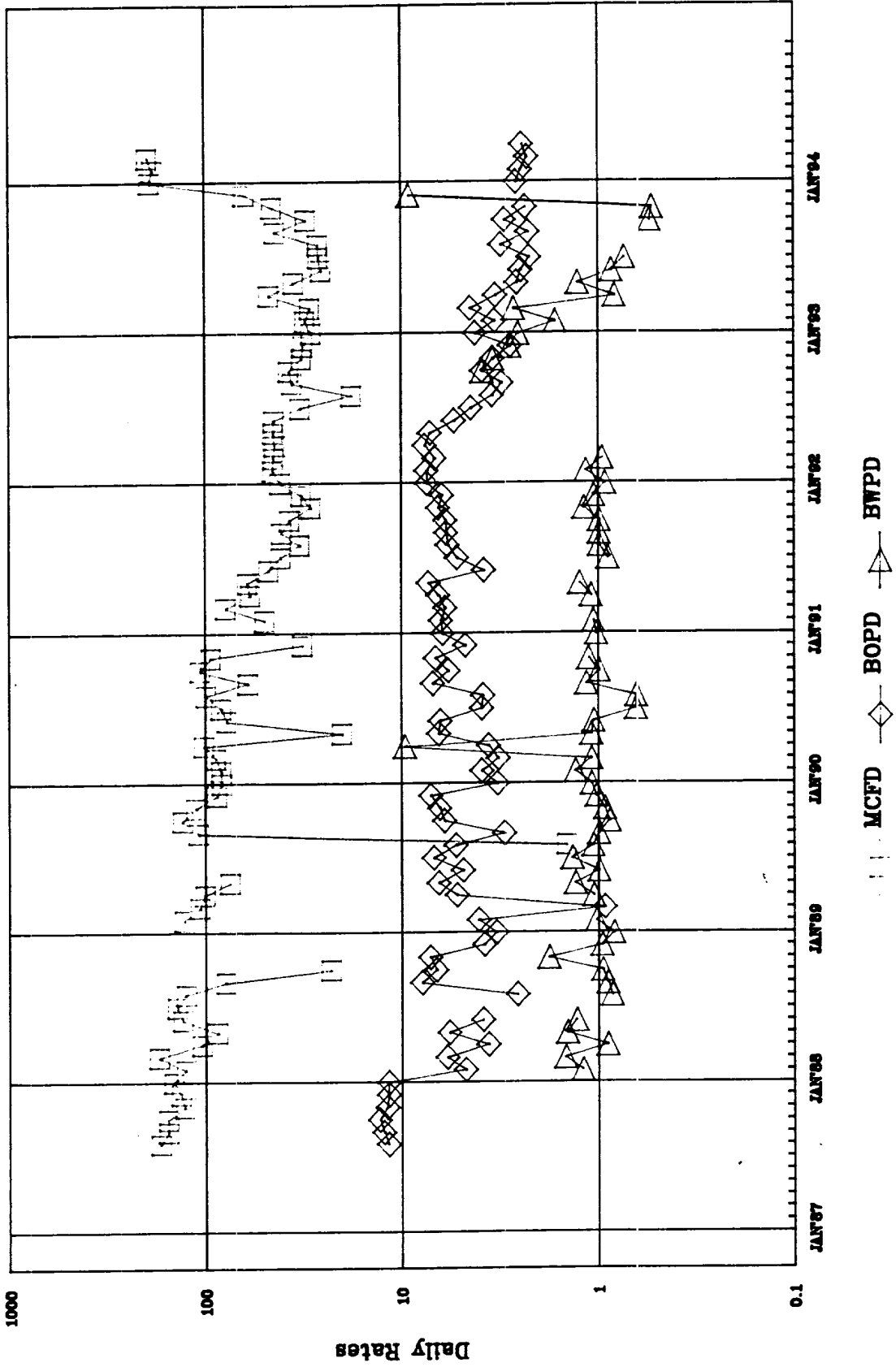
June 2, 1994 (505) 393-7106

Date

Telephone No.

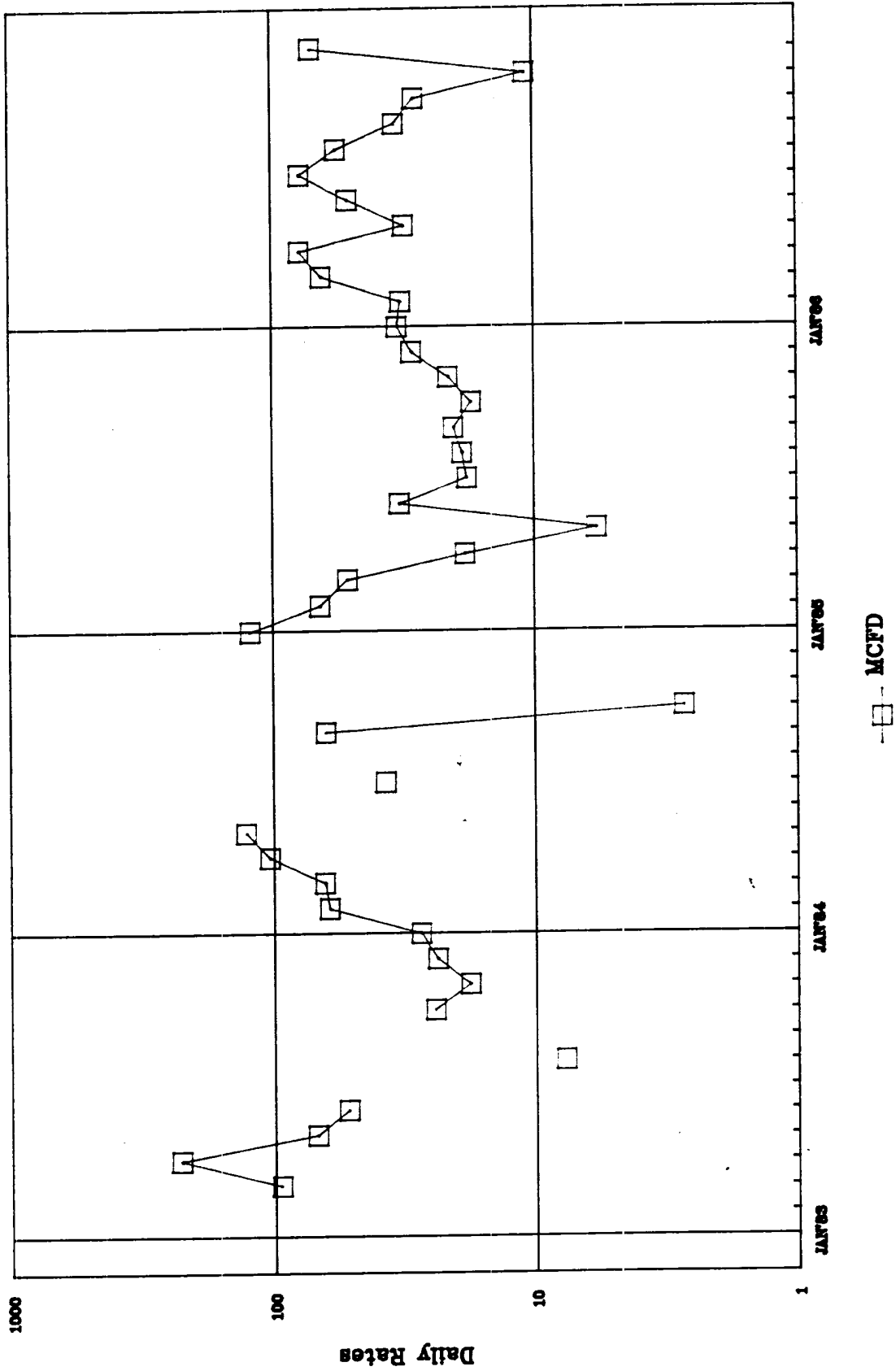
# LOU WORTHAN WELL NO. 14

Average Daily Tubb Production



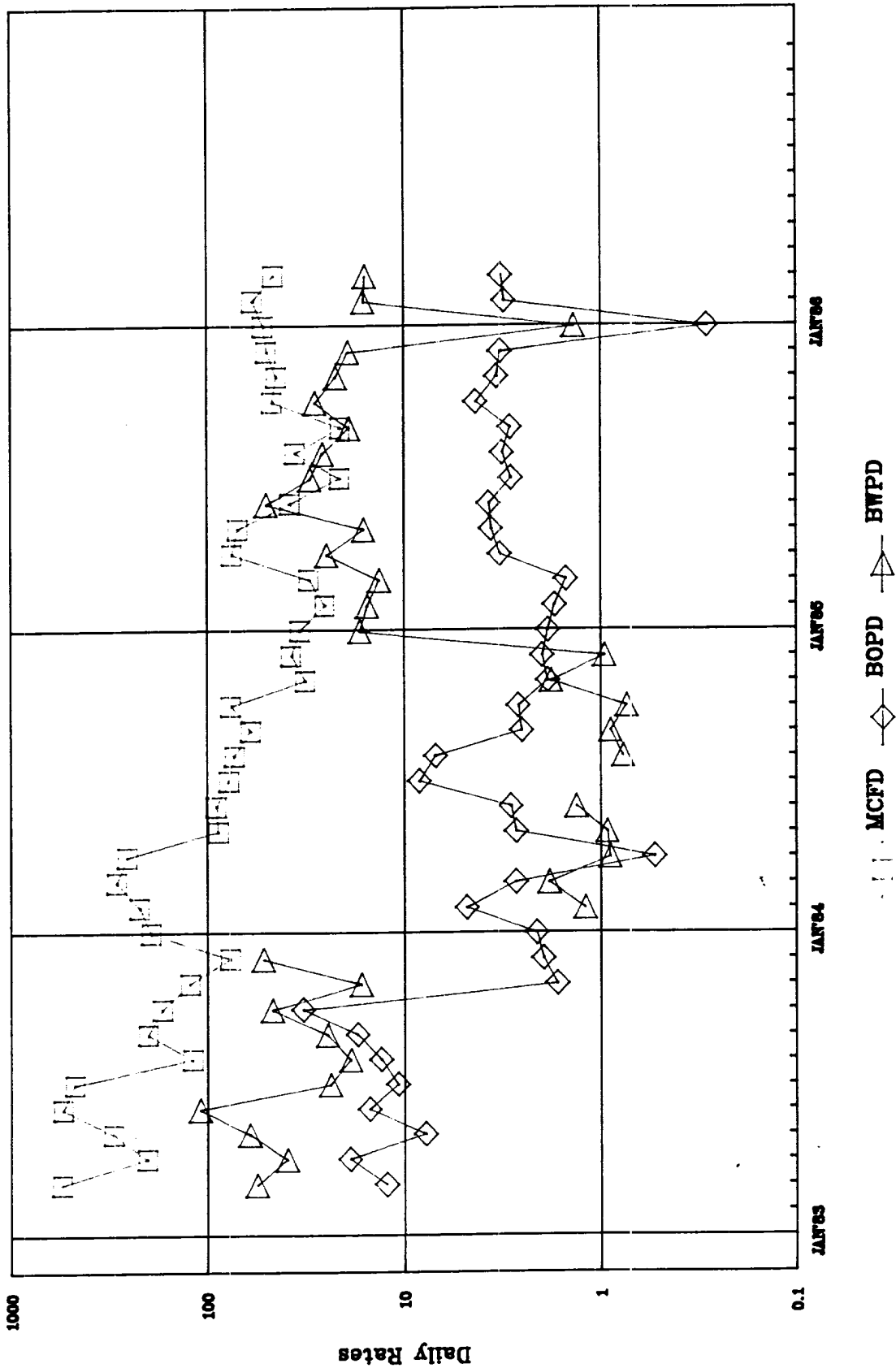
# LOU WORTHAN WELL NO. 14

## Average Daily Drinkard Production



# LOU WORTHAN WELL NO. 14

## Average Daily Granite Wash Production



OFFSET OPERATORS

LOU WORTHAN LEASE  
Section 11, T-22-S, R-37-E  
Lea County, New Mexico

Exxon Company USA  
PO Box 1600  
Midland, TX 79702-1600  
Attn: Land Department

Shell Western E&P  
PO Box 576  
Houston, TX 77001-0576  
Attn: Land Department

Oxy USA Inc.  
PO Box 50250  
Midland, TX 79705-0250  
Attn: Land Department

Southwest Royalties, Inc.  
PO Drawer 11390  
Midland, TX 79702-1390  
Attn: Jon M. Tate

John H. Hendrix  
223 West Wall, Suite 525  
Midland, TX 79701

Chevron USA Inc.  
PO Box 1150  
Midland, TX 79702-1150  
Attn: Land Department

American Exploration Co.  
1331 Lamar, Suite 900  
Houston, TX 77010-3086

Amerada Hess Corporation  
1201 Louisiana, Suite 700  
Houston, TX 77002  
Attn: Randy Pharr

Mobile Expl. & Prod. US Inc.  
PO Box 633  
Midland, TX 79702-0633  
Attn: Larry Coppedge

Texacc Expl. & Prod.  
PO Box 3109  
Midland, TX 79702-3109  
Attn: Land Department

Shell Oil Company  
PO Box 2463  
Houston, TX 77252-2463  
Attn: Land Department



LOU WORTHAN WELL NO. 14  
DRINKARD FIELD

Unit A, 520' FNL & 330' FWL  
SECTION 11, T-22S, R-37E

LEA COUNTY, NEW MEXICO

TD: 7540'    PBD: 7516'  
KB: 3381'    GL: 3370'

SURFACE: 9 5/8", 32.3#/ft, H-40 set  
1265'. Cemented with 650 sxs. Cir-  
culated 140 sxs. to pit.

PRODUCTION: 7", 23#/ft, K-55 & N-80,  
set at 7540'. Cemented w/ 2680  
sxs. DV-Tool at 4516'. Circulated  
172 sxs. to pit.

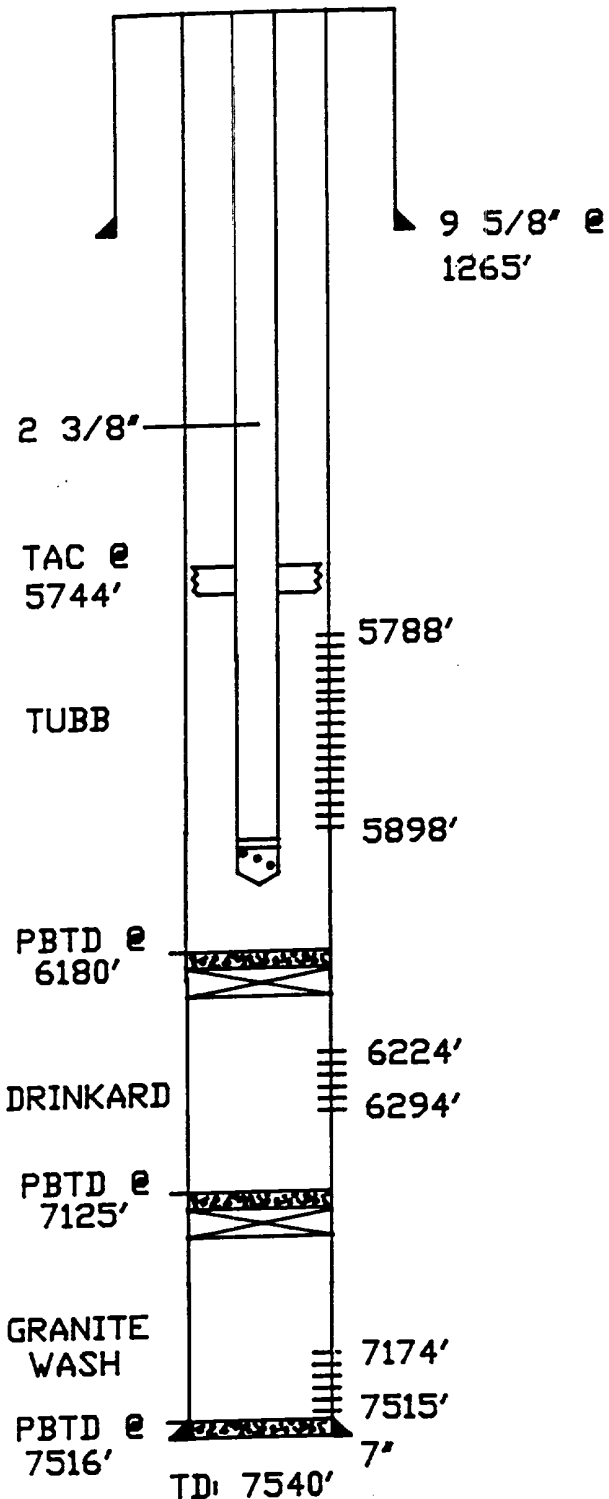
TUBING: 2 3/8", 4.7#, J-55, 8rd, EUE.  
TAC at 5744' with seating nipple  
at 5903'.

RODS & PUMP: 7/8" & 3/4" x 25' Grade  
D rods & 2" x 1 1/4" x 16' RHBC  
pump.

UNIT: Oilwell 228 w/ AJAX engine.

PRESENT COMPLETION:

Tubbi: 5788', 5800', 34', 46', 57', 66',  
70', 77', 94' & 5898', 2 JSPF  
for 20 holes.



HISTORY: Completed in May, 1976 as a Granite Wash oilwell. IP'd at top allowable from perfs 7289-7515'. Dualed with Drinkard in October of 1978. Pumping unit installed on Granite Wash in 1983. Added perfs to Granite Wash in 1985 (7174-7190') and frac'd. Recompleted to Tubb on 7/25/87. Acidized and frac'd perfs 5788 to 5898'. IP'd pumping 14 BO and 628 MCF per day.

June 3, 1994

Offset Operators  
Lou Worthan Well No. 14  
(mailing list attached)

RE: REQUEST FOR EXCEPTION TO RULE 303-A  
DOWNHOLE COMMINGLING  
MARATHON OIL COMPANY  
LOU WORTHAN WELL NO. 14  
UNIT A, 520' FNL & 330' FEL  
SECTION 11, T-22-S, R-37-E  
TUBB, DRINKARD AND GRANITE WASH FORMATIONS  
DRINKARD FIELD  
LEA COUNTY, NEW MEXICO

Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above captioned well. Enclosed, please find a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign below and return one copy to Marathon at the above address.

Sincerely,

S.P. Guidry  
Northwest Operations  
Production Superintendent

RDG:SPG/9468/kc  
Attachments

-----

Agreed and accepted this \_\_\_\_\_ day of \_\_\_\_\_,  
1994 by \_\_\_\_\_, as representative of

\_\_\_\_\_.

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

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

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

WELL API NO. 30-025-25255
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name  Lou Worthan
8. Well No. 14
9. Pool name or Wildcat Drinkard: Tubb/Drinkard/GW
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GR 3350'

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:  
OIL WELL  GAS WELL  OTHER

2. Name of Operator  
Marathon Oil Company

3. Address of Operator  
PO Box 2409 Hobbs, NM 88240

4. Well Location  
Unit Letter A : 520 Feet From The North Line and 330 Feet From The East Line  
Section 11 Township 33-S Range 37-E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
GR 3350'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: Downhole Commingle <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Marathon Oil Company respectfully proposes the downhole commingling of the Tubb, Drinkard and Granite Wash within the Lou Worthan Well No. 14. Two CIBPs will be removed from the wellbore and all three zones rod pumped. This work will commence upon approval to downhole commingle from the NMOCD.

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

SIGNATURE *Rick D. Gaddis* TITLE Petroleum Engineer DATE June 2, 1994

TYPE OR PRINT NAME Rick D. Gaddis TELEPHONE NO. 393-7106

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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

State of New Mexico  
 Energy, Minerals & Natural Resources Department

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

Form C-101  
 Revised February 10, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 6 Copies  
 Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address. Marathon Oil Company PO Box 2409 Hobbs, NM 88240		<sup>2</sup> OGRID Number 14021
		<sup>3</sup> API Number 30 - 0 25-25255
<sup>4</sup> Property Code 006488	<sup>5</sup> Property Name Lou Worthan	<sup>6</sup> Well No. 14

<sup>7</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
A	11	22S	37E	--	520	North	330	East	Lea

<sup>8</sup> Proposed 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>9</sup> Proposed Pool 1 Tubb					<sup>10</sup> Proposed Pool 2 Drinkard/Granite Wash				


<sup>11</sup> Work Type Code E	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary N/A	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3350'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 7540'	<sup>18</sup> Formation Granite Wash	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date Upon Approval

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
See C-105 on file					

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Marathon Oil Company proposes to drill out two CIBPs at 7125' and 6180' to downhole commingle the Tubb, Drinkard, and Granite Wash formations. Current production on the Tubb is 3 BOPD and 191 MCFD. Downhole commingled production is expected to be 6 BOPD and 281 MCFD.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed name: Rick D. Gaddis		Approved by:	
Title: Petroleum Engineer		Title:	
Date: June 3, 1994		Approval Date:	Expiration Date:
Phone: (505) 393-7106		Conditions of Approval: Attached <input type="checkbox"/>	