

Houston Division  
Production Operations, United States



**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*  
S.P. Guidry  
Northwest Operations  
Production Superintendent

RDG:SPG/9465/kc

Attachments

Oil Conservation Division  
RECEIVED  
JUN 13 1994  
PM 3 50

# **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  
Commingling 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<br/>(BPD)</u> | <u>GAS<br/>(MCFD)</u> | <u>WATER<br/>(BPD)</u> |
|------------------|----------------------|-----------------------|------------------------|
| Tubb             | 2.5                  | 191                   | 0                      |
| Drinkard*        | 0.0                  | 40                    | 0                      |
| Granite Wash*    | 3.1                  | 50                    | 16                     |
| TOTAL            | 5.6                  | 281                   | 16                     |

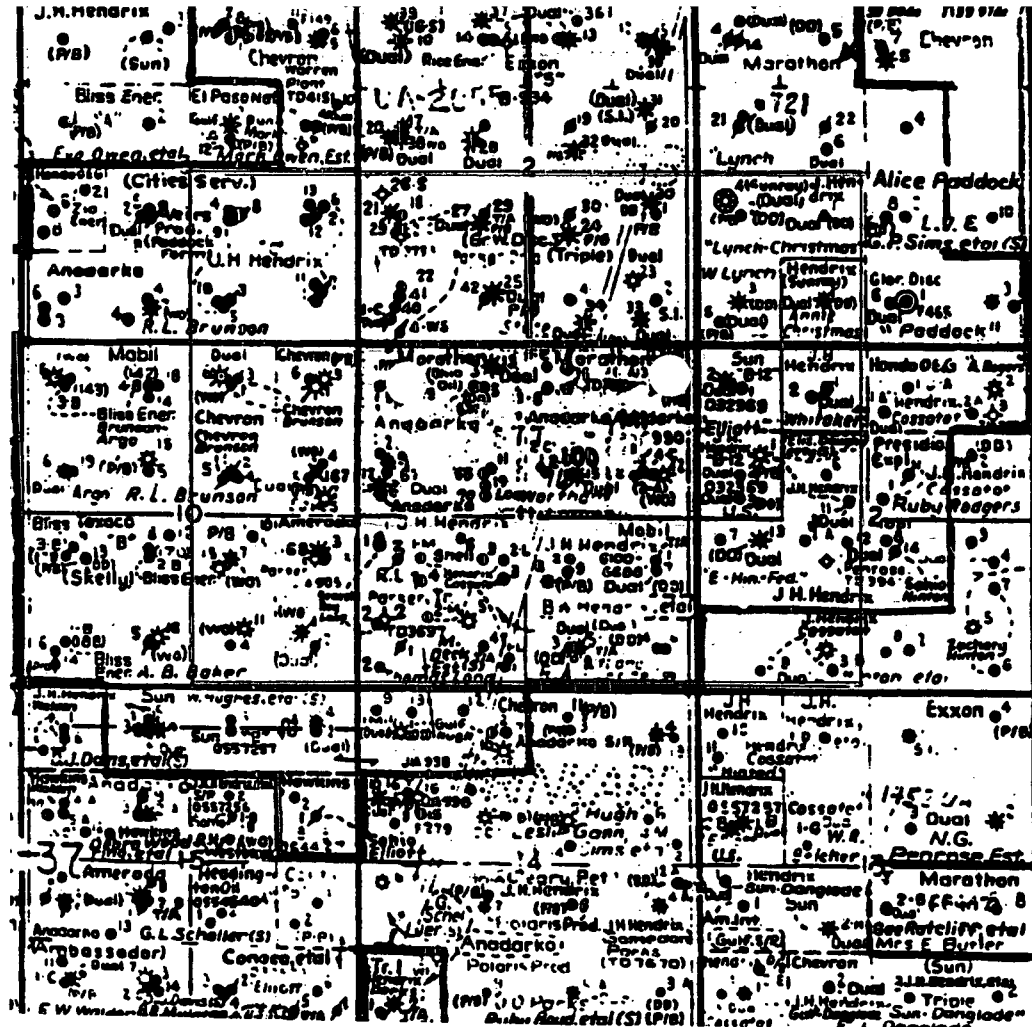
\* Estimated due to shut-in status.

Allocated Percentages should be:

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

(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.



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<br>30-025-25255 |                                       | Pool Code | Pool Name<br>Tubb Oil & Gas |
| Property Code<br>006488    | Property Name<br>Lou Worthan          |           | Well Number<br>14           |
| OGRID No.<br>14021         | Operator Name<br>Marathon Oil Company |           | Elevation<br>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<br>40 |         | <sup>13</sup> Joint or Infill<br>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' | 14 | 330' |
|    |  |  |  |  |      |    |      |
|    |  |  |  |  |      |    |      |
|    |  |  |  |  |      |    |      |

**<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  
Rick D. Gaddis  
Printed Name  
Petroleum Engineer  
Title  
June 2, 1994  
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 Surveyor:  
Certificate Number

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
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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 AFI Number<br>30-025-25255 |  | 2 Pool Code<br>19190                    |  | 3 Pool Name<br>Drinkard |                         |
| 4 Property Code<br>006488    |  | 5 Property Name<br>Lou Worthan          |  |                         | 6 Well Number<br>14     |
| 7 OGRID No.<br>14021         |  | 8 Operator Name<br>Marathon Oil Company |  |                         | 9 Elevation<br>3350' GL |

10 Surface Location

|                    |               |                 |              |               |                      |                           |                      |                        |               |
|--------------------|---------------|-----------------|--------------|---------------|----------------------|---------------------------|----------------------|------------------------|---------------|
| UL or lot no.<br>A | Section<br>11 | Township<br>22S | Range<br>37E | Lot Idn<br>-- | Feet from the<br>520 | North/South line<br>North | Feet from the<br>330 | East/West line<br>East | County<br>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<br>40 | 13 Joint or Infill<br>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 |  |  |  | 520' | 11   | 17 OPERATOR CERTIFICATION<br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief<br><br>Rick D. Gaddis<br>Signature<br>Rick D. Gaddis<br>Printed Name<br>Petroleum Engineer<br>Title<br>June 2, 1994<br>Date<br><br>18 SURVEYOR CERTIFICATION<br>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.<br><br>Date of Survey<br>Signature and Seal of Professional Surveyor:<br><br>Certificate Number |
|    |  |  |  | 14   | 330' |   |
|    |  |  |  |      |      |   |
|    |  |  |  |      |      |   |

District I  
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District III  
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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<br>30-025-25255 |                                       | Pool Code | Pool Name<br>Granite Wash |
| Property Code<br>006488    | Property Name<br>Lou Worthan          |           | Well Number<br>14         |
| OGRID No.<br>14021         | Operator Name<br>Marathon Oil Company |           | Elevation<br>3350'        |

10 Surface Location


| UL or lot no. | Section | Township | Range | Lot Ida | 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 Ida | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

|                       |                      |                    |           |
|-----------------------|----------------------|--------------------|-----------|
| Dedicated Acres<br>40 | Joint or Infill<br>N | Consolidation Code | 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   |  |
|   | <br>Signature: Rick D. Gaddis<br>Printed Name: Rick D. Gaddis<br>Title: Petroleum Engineer<br>Date: June 12, 1994 |  |
|   | 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: _____<br>Signature and Seal of Professional Surveyor: _____<br>Date of Survey: _____<br>Signature and Seal of Professional Surveyor: _____  |  |  |
| Certificate Number  |  |  |

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

## GAS - OIL RATIO TEST

| Operator<br>Marathon Oil Company       |          | Pool<br>Tubb Oil & Gas   |    | County<br>Lea   |     |              |              |            |             |                  |                      |                   |           |            |            |                            |
|--|----------|--|----|---|-----|--------------|--------------|------------|-------------|------------------|----------------------|-------------------|-----------|------------|------------|----------------------------|
| Address<br>PO Box 2409 Hobbs, NM 88240 |          | TYPE OF TEST - (X)<br><input checked="" type="checkbox"/> Scheduled <input type="checkbox"/> |    | Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/> |     |              |              |            |             |                  |                      |                   |           |            |            |                            |
| LEASE NAME                             | WELL NO. | LOCATION   |    |   |     | DATE OF TEST | SIZE 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.      | GRAV. OIL | OIL BBL.S. | GAS M.C.F. |                            |
| Lou Worthan                            | 14       | A  | 11 | 22S   | 37E | 5/23/94      | P            | N/A        | 30          | N/A              | 24                   | 0                 | 40        | 2.5        | 191        | 76,400                     |

### 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.



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

# OIL CONSERVATION DIVISION

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

## GAS - OIL RATIO TEST

| Operator<br>Marathon Oil Company       |          | Pool<br>Drinkard*  |    | County<br>Lea  |     |              |      |            |             |                  |                      |                   |                 |          |            |                            |
|--|----------|--------------------|----|--|-----|--------------|------|------------|-------------|------------------|----------------------|-------------------|-----------------|----------|------------|----------------------------|
| Address<br>PO Box 2409 Hobbs, NM 88240 |          | TYPE OF TEST - (X) |    | Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/> |     |              |      |            |             |                  |                      |                   |                 |          |            |                            |
| LEASE NAME                             | WELL NO. | LOCATION           |    |  |     | DATE OF TEST | SIZE | 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       | GRAV. OIL BBL.S | OL BBL.S | GAS M.C.F. |                            |
| Lou Worthan                            | 14       | A                  | 11 | 22S  | 37E | N/A          | F    | N/A        | 30          | N/A              | 24                   | 1                 | 40              | 0        | 40         | N/A                        |

\* 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*

Rick D. Gaddis, Petroleum Engineer

Printed name and title

Date June 2, 1994 (505) 393-7106 Telephone No.

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

**GAS - OIL RATIO TEST**

|  |                    |                       |           |  |                         |                 |                       |                       |                             |                                |                        |  |  |  |
|--|--------------------|-----------------------|-----------|--|-------------------------|-----------------|-----------------------|-----------------------|-----------------------------|--------------------------------|------------------------|--|--|--|
| Operator<br>Marathon Oil Company                           |                    | Pool<br>Granite Wash* |           | County<br>Lea  |                         |                 |                       |                       |                             |                                |                        |  |  |  |
| Address<br>PO Box 2409 Hobbs, NM 88240                     |                    | TYPE OF TEST - (X)    |           | Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/> |                         |                 |                       |                       |                             |                                |                        |  |  |  |
| LEASE NAME<br><br>Lou Worthan                              | WELL NO.<br><br>14 | LOCATION<br>U S T R   |           |  | DATE OF TEST<br><br>N/A | STATUS<br><br>P | CHOKE SIZE<br><br>N/A | TBG. PRESS.<br><br>30 | DAILY ALLOW-ABLE<br><br>N/A | LENGTH OF TEST HOURS<br><br>24 | PRODUCTION DURING TEST |  |  | GAS - OIL RATIO CU/FT/BBL.<br><br>16,129 |
|  |                    | WATER BBL.S.          | GRAV. OIL | OIL BBL.S.   |                         |                 |                       |                       |                             |                                | GAS M.C.F.             |  |  |  |
| *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.

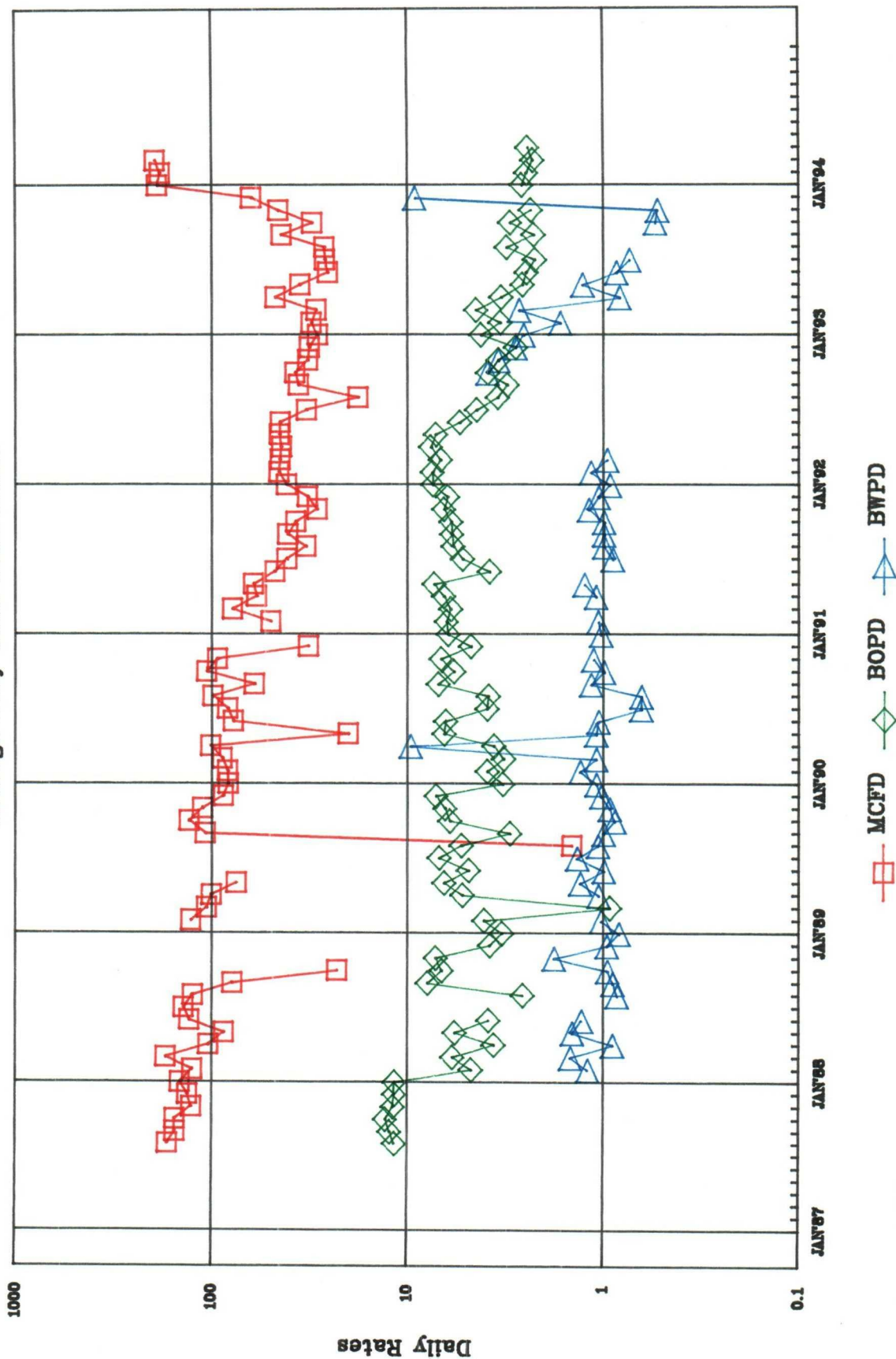
Signature  


Rick D. Gaddis, Petroleum Engineer  
Printed name and title  
June 2, 1994 (505) 393-7106

Date Telephone No.

# LOU WORTHAN WELL NO. 14

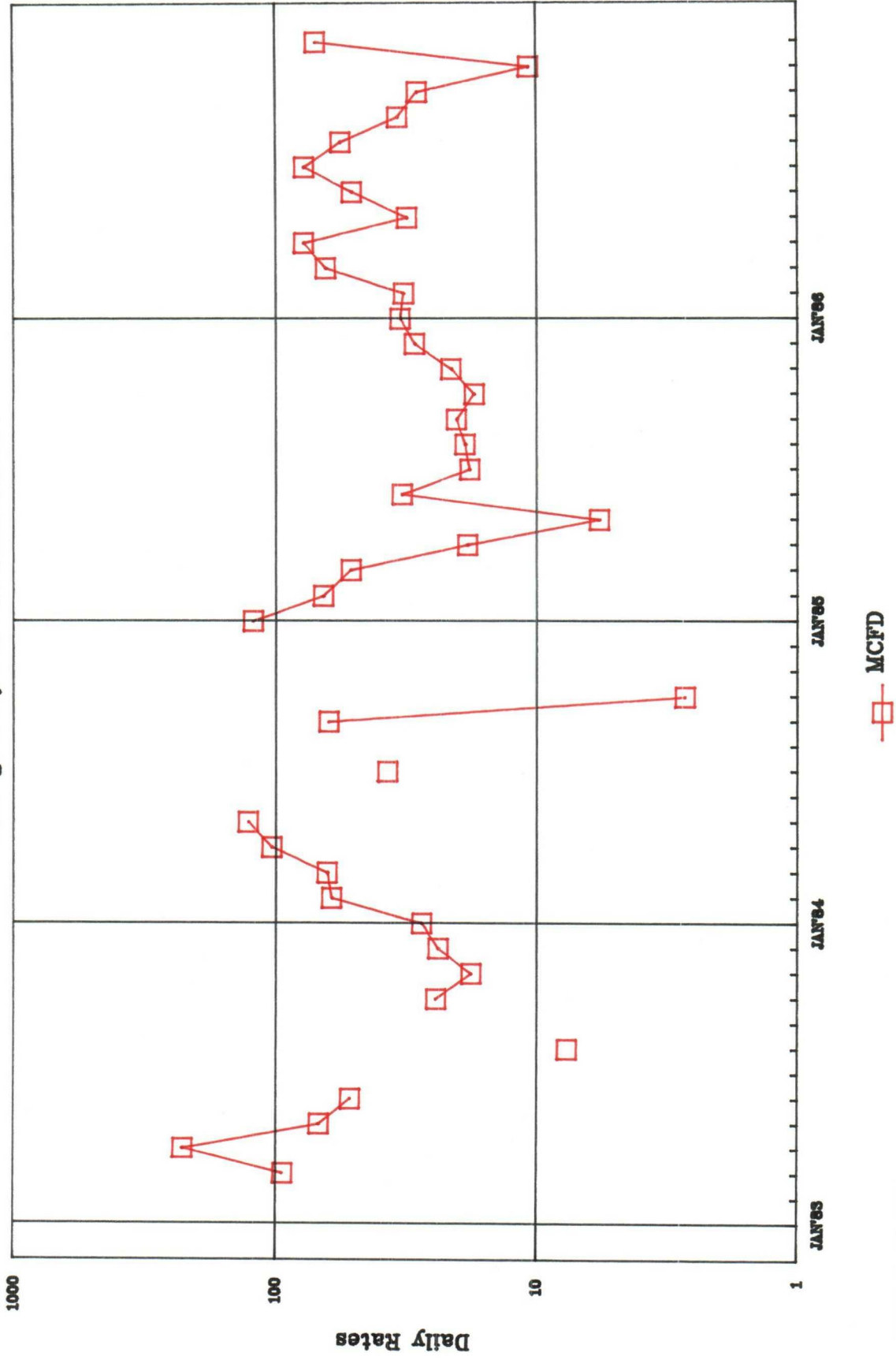
Average Daily Tubb Production



EDG/FWORTH14/002

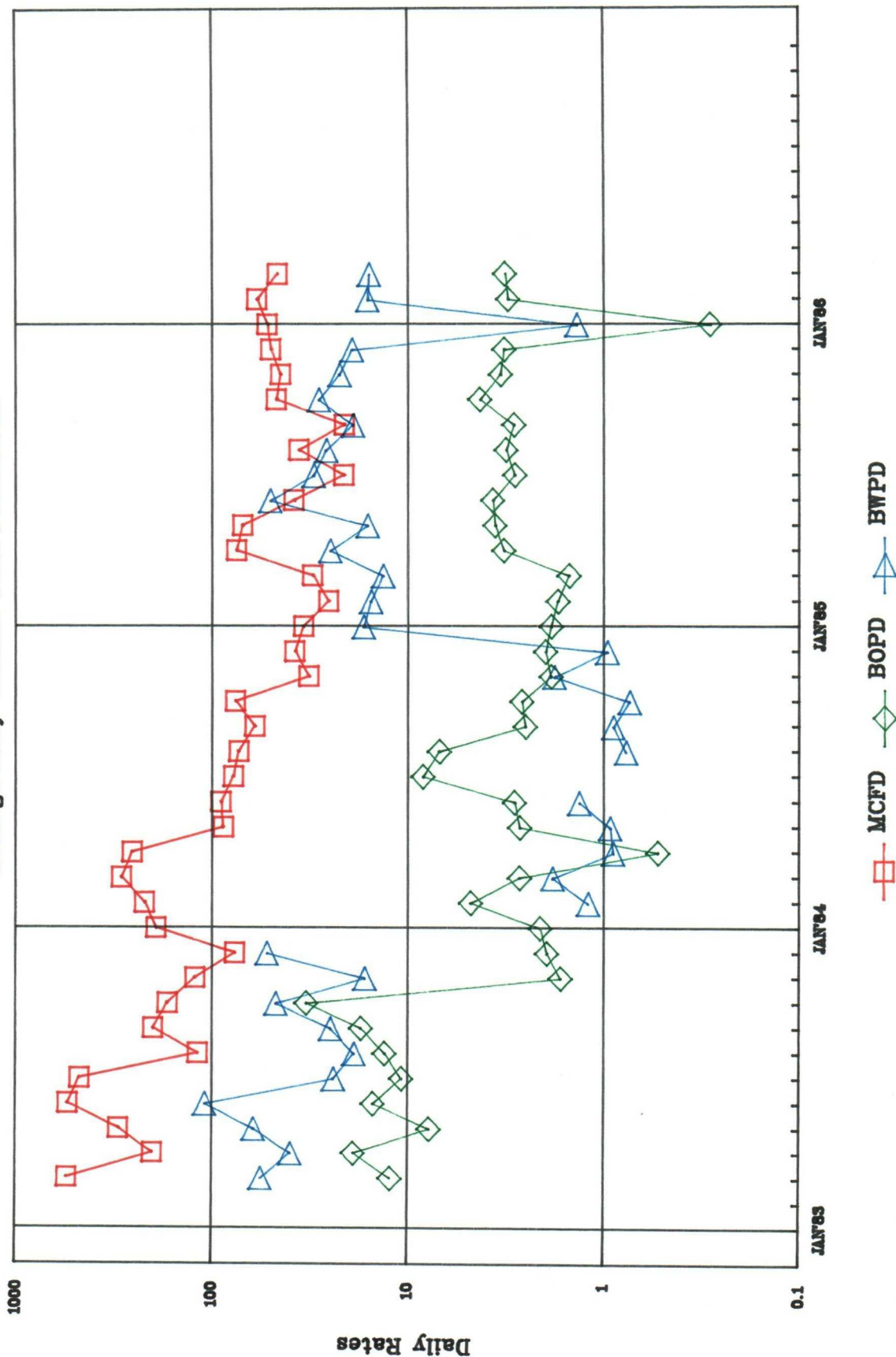
# LOU WORTHAN WELL NO. 14

Average Daily Drinkard Production



# LOU WORTHAN WELL NO. 14

Average Daily Granite Wash Production



EDG/FWOR14G/002

**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

Texaco 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.

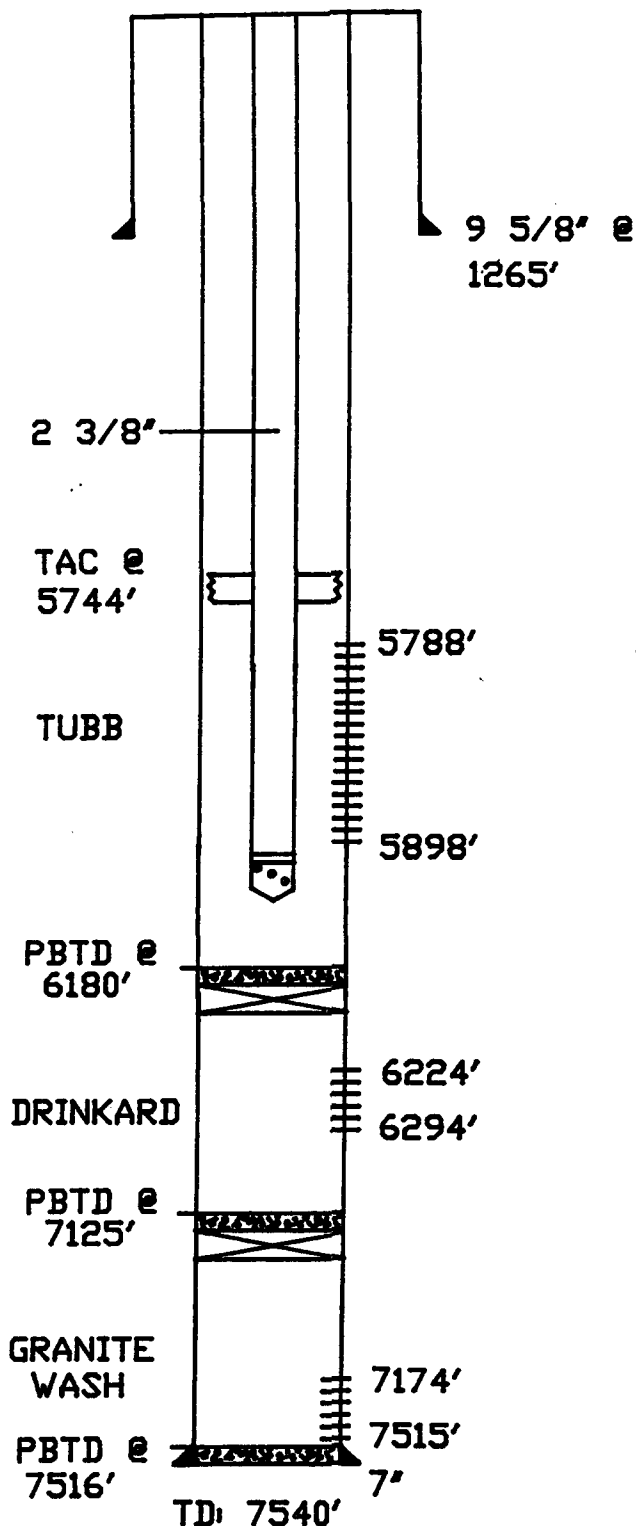
TUBING: 2 3/8", 4.7#, J-55, 8rd, EUE.  
TAC at 5744' with seating nipple  
at 5903'.

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'. Dualled 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 Tubbi on 7/25/87. Acidized and frac'd perfs 5788 to 5898'. IP'd pumping 14 BO and 628 MCF per day.



**Marathon  
Oil Company**

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

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* for S.P.G. 6/9/94

S.P. Guidry  
Northwest Operations  
Production Superintendent

RDG:SPG/9468/kc  
Attachments

-----

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



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.<br>30-025-25255  |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.  |

|   |   |
|---|---|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(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:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>   | 7. Lease Name or Unit Agreement Name<br>Lou Worthan   |
| 2. Name of Operator<br>Marathon Oil Company   | 8. Well No.<br>14                                     |
| 3. Address of Operator<br>PO Box 2409 Hobbs, NM 88240   | 9. Pool name or Wildcat<br>Drinkard: Tubb/Drinkard/GW |
| 4. Well Location<br>Unit Letter <u>A</u> : <u>520</u> Feet From The <u>North</u> Line and <u>330</u> Feet From The <u>East</u> Line<br>Section <u>11</u> Township <u>33-S</u> Range <u>37-E</u> NMPM Lea County |   |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>GR 3350'  |   |

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

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: Downhole Commingle ☒

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

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 NMOC.

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.<br>Marathon Oil Company<br>PO Box 2409<br>Hobbs, NM 88240 |   | <sup>2</sup> OGRID Number<br>14021        |
|   |   | <sup>3</sup> API Number<br>30 - 025-25255 |
| <sup>4</sup> Property Code<br>006488  | <sup>5</sup> Property Name<br>Lou Worthan | <sup>6</sup> Well No.<br>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<br>Tubb |         |          |       |         | <sup>10</sup> Proposed Pool 2<br>Drinkard/Granite Wash |                  |               |                |        |

|                                   |                                       |   |                                    |   |
|-----------------------------------|---------------------------------------|---|------------------------------------|---|
| <sup>11</sup> Work Type Code<br>E | <sup>12</sup> Well Type Code<br>0     | <sup>13</sup> Cable/Rotary<br>N/A       | <sup>14</sup> Lease Type Code<br>P | <sup>15</sup> Ground Level Elevation<br>3350' |
| <sup>16</sup> Multiple<br>N       | <sup>17</sup> Proposed Depth<br>7540' | <sup>18</sup> Formation<br>Granite Wash | <sup>19</sup> Contractor<br>N/A    | <sup>20</sup> Spud Date<br>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:



Printed name:

Rick D. Gaddis

Title:

Petroleum Engineer

Date:

June 3, 1994

Phone:

(505) 393-7106

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐