

STATE OF NEW MEXICO ENERG . , MINERALS AND NATURAL RESOURCLU DEPARTMENT

> OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

1/21/98

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

No Cor

DHC-1807 2/25/98

GOVERNOR

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

RE: Proposed:

| 110000 | | |
|--------|---|--|
| MC | | |
| DHC | X | |
| NSL | | |
| NSP | | |
| SWD | | |
| WFX | | |
| РМХ | | |

Gentlemen:

I have examined the application for the: <u>Marathon DilCo McCallister State</u> #12-L-25-175-34 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

None -

Yours very truly,

trus U

Chris Williams Supervisor, District 1

/ed

Mid-Cc rent Region Product J United States



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

January 13, 1998

Mr. David Catanach Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501-2088

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 12 UL "L", 1,945' FSL & 850' FWL Sec. 25, T-17-S, R-34-E Wolfcamp and Upper Penn Pools Vacuum 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 Vacuum (Wolfcamp) and Vacuum (Penn) pools.

The McCallister St. No. 12 was recently drilled as an Atoka producer. However, the Atoka was abandoned due to uneconomical production and was completed in the Penn formation. Unfortunately, the Penn production has also proved to be uneconomical. For this reason, Marathon is requesting to downhole commingle the Penn and Wolfcamp to maximize the economical production from the well. Rod pumping equipment will be utilized to keep the PBHP as low as possible to prevent crossflow.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please advise.

Sincerely,

Byn to William

Bryan L. Williams Production Engineer

BLW//regltory/commling/dhc/coverpag/mcal12_b Enclosure

Mid-Cr inent Region Produce In United States



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

January 13, 1998

Mr. Pete Martinez Commissioner of Public Lands State Land Office Building P.O. Box 1148 Santa Fe, NM 87504-1148

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 12 UL "L", 1,945' FSL & 850' FWL Sec. 25, T-17-S, R-34-E Wolfcamp and Upper Penn Pools Vacuum Field Lea County, New Mexico

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Sincerely,

Boy to William

Bryan L. Williams Production Engineer

BLW//regitory/commling/dhc/coverpag/mcal12_a Enclosure

Mid-C inent Region Producin United States



January 13, 1998

Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 12 UL "L", 1945' FSL & 850' FWL Sec. 25, T-17-S, R-34-E Wolfcamp and Upper Penn Pools Vacuum Field Lea County, New Mexico

Ladies and/or Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above referenced well. Please find enclosed 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 mail the original to the NMOCD in the enclosed addressed envelope. Also, please return one copy to Marathon at the letterhead address.

Sincerely,

By- to Willing

Bryan L. Williams Production Engineer

BLW//regltory/commling/dhc/wio/mcal12_a Enclosure

| Agreed and accepted this | _day of | 199 |
|--------------------------|---------|-------------------|
| by | , as | representative of |

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

Mid-C nent Region Produce a United States

Hobbs, NM 88241-2409

Telephone 505/393-7106

P.O. Box 2409



January 13, 1998

Mobil Exploration and Producing U.S. Inc. 500 W. Illinois, Midland, TX 79701 P.O. Box 633, Midland, TX 79702-0633

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 12 UL "L", 1945' FSL & 850' FWL Sec. 25, T-17-S, R-34-E Wolfcamp and Upper Penn Pools Vacuum Field Lea County, New Mexico

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Sincerely,

Baya to Williams

Bryan L. Williams Production Engineer

BLW//regitory/commling/dhc/wio/mcal12_b Enclosure

| Agreed and accepted this | day of | 199 |
|--------------------------|--------|------------------------|
| by | | , as representative of |

Mid-Cr hent Region Produce United States

Hobbs, NM 88241-2409

Telephone 505/393-7106

P.O. Box 2409



January 13, 1998

Texaco Exploration and Producing Inc. Heritage Center, Midland, TX 79701 P.O. Box 3109, Midland, TX 79702-3109

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 12 UL "L", 1945' FSL & 850' FWL Sec. 25, T-17-S, R-34-E Wolfcamp and Upper Penn Pools Vacuum Field Lea County, New Mexico

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Sincerely,

Bryan L. Williams Production Engineer

BLW//regitory/commling/dhc/wio/mcal12_c Enclosure

| Agreed and accepted this | day of | 199 |
|--------------------------|--------|------------------------|
| by | | , as representative of |

EXHIBIT "B" - CASE NO. 11353, ORDER NC R-10470-A

DISTRICT I

P.O. Box 1880, Hobbs, MM 88240 DISTRICT II 811 South First St., Artesis, NM 88210 DISTRICT III 1000 Re Brazes Rd. Aztes, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION** 2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-A APPROVAL PROCESS: Administrative ____Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORF X YES ___ NO

Marathon Oil Company PO Box 2409 Hobbs, NM 88241 064

McCallister State 12 UI L. Sec.25. 1-17-0, K-34-L Lea TARL NATIONAL COUNTS

State XX (check 1 pr more) OGRID NO. 014021 6431 30-025-33954 Property Code API NO. _ , State Federal . Land/or) Fee

| The following facts are submitted in support of downhole commingling: | Upper Zon≎ | Intermediate Zones | Lower Zone |
|--|---|-----------------------|---------------------------------------|
| 1. Pool Name and Pool Code | Vacuum; Wolfcamp | | Vacuum; Upper ^p enn |
| 2. Top and Bottom of Pay Section (Perforations) | 9541-10,002' | | 10,964-10,994' |
| 3. Type of production (Oil or Gas) | 011 | | 0il |
| 4. Method of Production (Flowing or Artificial Lift) | Artificial Lift | | Artificial Lift |
| 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: | ICurrenti 100 PBHP 2500 SBHP | B. | • 100 PBHP 2000 SBHP |
| Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original | b. (Original) | b. | b. |
| 8. Oil Gravity ([®] API) or Gas BTU Content | 40 API | | 41 API |
| 7. Producing or Shut-In? | Producing | | Producing |
| Production Marginal? (yes or no) | 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 | Data: Rates: | Dele: Rales: | Data Rates: |
| production estimates and supporting data * If Producing, give date andoil/gas/ water rates of recent test (within 60 days) | Dete: 1/12/98 Aatas: 54 / 121 / 10 | Date: Rates: | Date: 11/10/97 Rates: 29 / 208 / 3 |
| 8. Fixed Percentage Allocation Formula -% for each zone | OH: 65 % Gaa: 37 % | 04: Gas: % % | Out: 35 % Gaar 63 % |

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? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? $\frac{X}{\underline{X}} \frac{Yes}{Yes} - \frac{No}{No} \frac{No}{No}$

11. Will cross-flow occur? ____Yes X 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)

ORDER NO(S).

12. Are all produced fluids from all commingled zones compatible with each other? X Yes No

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

_Yes X_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. X_Yes ____ No

15. NMOCD Reference Cases for Rule 303(C) Exceptions:

16. ATTACHMENTS

IMENTS:
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 explaination.)
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

| | to the best of my knowledge and bellet. |
|--------------------------------------|---|
| SIGNATURE Ling La William | TITLE Production Eng. DATE 1/13/98 |
| TYPE OR PRINT NAME Bryan L. Williams | TELEPHONE NO. (505) 393-7106 |
| | |

REQUEST FOR EXCEPTION TO RULE 303-A McCallister St. No. 12 Vacuum Field

A: Operator

.

Marathon Oil Company P.O. Box 2409 Hobbs, NM 88241-2409

B: Lease Name and Well Number

McCallister St. No. 12 UL "L" 1945' FSL & 850' FWL Sec. 25, T-17-S, R-34-E Lea Co., New Mexico Vacuum: Wolfcamp & Upper Penn Pools

C: Plats and Offset Operators

Attached

D: Form C-116

Attached

E: Production Decline Curves

Attached

F: Estimated Bottomhole Pressures

Vacuum, Upper Penn - 2000 psi Vacuum, Wolfcamp - 2500 psi

G: Fluid Characteristics

Marathon has additional wells within the same lease which are downhole commingled in the Abo, Wolfcamp, and Penn zones without compatibility problems.

H: Value

Marathon receives the same price for the products from each zone and value will not be adversely affected.

Request for Exeption to Rule 303-A McCallister St. No. 12 Page 2

I: Production Allocation

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| <u>Pool</u> | <u>BOPD</u> | <u>MCFPD</u> | <u>BWPD</u> | Estimate Method |
|--|-----------------------|--------------------------|----------------------|--|
| Vacuum, Upper Penn Vacuum, Wolfcamp | 29 <u>54</u> 83 | 208 <u>121</u> 329 | 3 <u>10</u> 13 | Pre-work actual production Post-work incremental production Well test on 1/12/98 |
| Allocated Percentage | es <u>Oil %</u> | <u>Gas %</u> | <u>Water %</u> | |
| Post-workover utilizir | ng above produ | iction | | |
| Vacuum, Upper Penn | | | 23% | |
| Vacuum, Wolfcamp | <u>65%</u> | <u>37%</u> | <u>77%</u> | |
| Total | 100 | 100 | 100 | |

J: Ownership

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

K: Offset Operator Notification

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

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. Ist Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

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State of New Mexico Inergy, Minerals & Natural Resources Depa int Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

AMENDED REPORT

| WELL LOCATION AND ACREAGE DEDICATION P | LAT |
|--|-----|
|--|-----|

| 1 | API Number | | | ² Pool (| Code | | | ⁵ Pool Name | • | | |
|-------------------|------------|-----------|---------------|---------------------|--------------|-----------|------------------|----------------------------------|----------------|----------------|--|
| | -025-339 | | | 623 | 20 | | | Vacuum; Uppe | r P <u>enn</u> | | |
| 4 Property | | <u></u> | | | 5 Pro | perty Na | ne | | | 6 1 | Well Number |
| 643 | | | | | McCall | ister | State | | | | 12 |
| 7 OGRID | | | | | 8 Op | erator Na | me | | | | Elevation |
| 0140 | 21 | | | | Maratho | n 011 | Company | | | GL 4 | 008 KB 4026 |
| 0140 | <u></u> | L | | | | e Locati | | | | | |
| UL or lot no. | Section | Township | Range | Lot. Idr | 1 Feet fro | m the | North/South Line | Feet from the | East/W | est line | County |
| | 25 | 17S | 34E | | 19 | 945 | South | 850 | We | st | Lea |
| • | | | - | ttom He | ole Location | If Diffe | rent From Surfac | æ | | | |
| UL or lot no. | Section | Township | Rango | Lot. Id | n Feet fro | m the ' | North/South Line | Feet from the | East/W | est line | County |
| 12 Dedicated Acre | s 13 Joint | or Infill | Consolidation | Code | 15 Order No. | | <u></u> | <u></u> | <u></u> | | |
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| | | | SSIGNED ' | TO TH | IS COMPLE | TION | JNTIL ALL INT | ERESTS HAV | e beel | N CON | SOLIDATED |
| NU ALLUV | ADLE W | OR A N | ION-STAL | NDARI | O UNIT HA | S BEEN | APPROVED B | Y THE DIVISI | NC | | |
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| | | | | <u> </u> | | | | Signature | WA | <u> </u> | Z |
| | | | | | | | | Bryan L. M | v1111a | <u>ms _</u> | |
| | | | | | | 47. | | Printed Name | . P 1 | | |
| | | | | | | | • | Production | 1 Engl | n <u>eer</u> _ | |
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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., Aztee, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 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 | r | | ² Pool Code | • | | | ³ Pool Name | 8 | | |
|--------------------|---------------------|-------------|------------------|------------------------|----------------------|----------|------------------|----------------------------|------------------------|--------------------------|---|
| 30 | -025-339 | 54 | | 62340 | | | | Vacuum; Wol | fcamp | | |
| 4 Property | | | | | ⁵ Pro | perty Na | me | | | 6 1 | Well Number |
| 643 | 1 | | | | McCall | ister | State | | | | 12 |
| 7 OGRID | | | | | 8 Ope | rator Na | me | | | 9 | Elevation |
| 0140 | 21 | | | | Maratho | n 011 | Company | | | GL 4 | 008 KB 4026 |
| | | | | 1 | ^o Surface | | | | | | |
| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from | n the | North/South Line | Feet from the | East/W | est line | County |
| L | 25 | 17S | 34E | | 19 | 45 | South | 850 | We | st | Lea |
| | | | ¹¹ Bo | ttom Hole | Location | lf Diffe | rent From Surfac | æ | | | |
| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from | n the | North/South Line | Feet from the | East/W | est line | County |
| | | | | | | 1. | | | | | |
| 12 Dedicated Acres | ¹³ Joint | or Infill | Consolidation | Code 15 O | rder No. | _ | | | | | |
| 80 | | | | | | _ | | | | | |
| NO ALLOW | ABLE W | ILL BE A | SSIGNED ' | TO THIS C | OMPLE | TION U | INTIL ALL INT | ERESTS HAV | e been | N CON | SOLIDATED |
| | | OR A N | NONSTAI | NDARD U | NIT HAS | BEEN | APPROVED BY | Y THE DIVISIO | ON | | |
| | | | | | | | | I hereby certify t | hat the i | formation | CATION contained herein is nowledge and belief. |
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| | | | | | | | | Daya | h li | lla | 7 |
| | | | | | | | | Signature Bryan L. W | | / | |
| | E E | | | | | | | Printed Name | | 12 | |
| | [| | | | | 1 | | Production | Engir | neer | |
| | | | | | | | | Title | | | |
| | | | | | | | | January 13 | <u>, 1998</u> | 3 | |
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| | | | | | | ; | | I hereby certify th | hat the w field not | ell locatio es of act | ICATION n shown on this plat wal surveys made by that the same is true |
| 850' | | <u>~</u> 80 | D DEDIC | ATED A | CRES | | | and correct to the b | est of my bi | ∶äef. | |
| | | | | | | | | DRIGINAL Date of Survey | - Ap | eil 2 | 2,1997 |
| | | | | | | | | Signature and Sea | l of Profe | ssional Su | rveyer: |
| r 194 | 45' | | | | | | | | | | |
| r | | | | | | | | | | | |
| - | | | | | | | | Certificate Numbe | | | |
| <u> </u> | 1/ | | | | | | | | | | |



Marathon Oil Company McCallister St. No. 12 UL "L", 1945' FSL & 850' FWL Section 25, T-17-S, R-34-E Lea County, New Mexico Vacuum Field

Offset Operators and Addresses

Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

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Mobil Exploration and Producing U.S. Inc. 500 W. Illinois, Midland, TX 79701 P.O. Box 633, Midland, TX 79702-0633

Texaco Exploration and Producing Inc. Heritage Center, Midland, TX 79701 P.O. Box 3109, Midland, TX 79702-3109



WELL TEST PRODUCTION

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 2040 Pacheco St. Santa Fe, NM 87505

DISTRICT II 811 S. 1st Street, Artesia, NM 88210-2834 DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

Submit 2 copies to Appropriate District Office. DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

GAS - OIL RATIO TEST

| Uperator | | | | | | | | | | | | <u></u> | County | | | |
|---|-------------------------|----------------|---------------------|----------------------|---------------------|-------------------|-----------------|---|------------------------|-----------------|---|----------------------------|----------|-------------------|---------------|--------------------|
| Taration UII Company | | | | | | | > | <u>Vacuum: Upper Penn / Wolfcamp</u> | r Penn / | <u>Wolfcamp</u> | | _ | | | Lea | |
| Address P.O. Box 2409 Hobbs, NM 8 | 88240 | | | | | | | TYPE OF TEST - (X) | Scheduled | | ŭ | Completion | | ЗS | Special X | |
| | - M | | | LOCATION | NOL | | | u Z Sr | Car | DAILY | LENGTH | | PROD. DU | PROD. DURING TEST | | GAS-OI |
| LEASE NAME | z | Ŋ. | 5 | s | ⊢ | œ | TEST | SIZE | PRESS. | ALLOW- ABLE | TEST HOURS | WATER BBLS. | GRAV. | BBLS. | GAS M.C.F. | RATIO CULFT/BBL |
| McCallister State | | 12 L | | 25 | 17S | 34E | 1/12/98 | ۲. | | | 24 | 13 | | 8 | 329 | |
| DHC Application | | | _ | | | | | | | | | | | | | |
| Zone 011% Gask | ۶ د | | | | | | | | | | _ | | | | | |
| Upper Penn 35 63 | | | | | | | | | | | | | | 29 | 208 | 7172 |
| Wolfcamp 65 37 | | | | | | | | | , | | | | | 42 | 121 | 2241 |
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| FOR INFORMATION ONLY | | | | | | | | | | | | | | | - | |
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| Instructions: | | | | | | | | | | I | I hereby certify that the above information is true and | tify that t | he above | : informa | tion is tr | ue and |
| 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 encourased to take advantage of this 25 percent tolerance it | ell shall t percent. | opera Opera | luced a tor is c | lt a rate encoura | not exe sed to 1 | ceding ake adv | the top unit a | cceeding the top unit allowable for the pool in take advantage of this 25 nercent tolerance in | : pool in crance in | 8 | complete to the best of my knowledge and belief. | the best of \int_{a}^{b} | of my kn | owledge | and belie | ¥. |
| order that well can be assigned increased allowables when authorized by the Division. | ed allow | ables v | /hen al | uthorize | d by th | e Divis | ion. | | | <u>S</u> | Signature | | | | | |
| Gas volumes must be reported in MCF measured at a pressure base Specific pravity have will be 0.60. | MCF II | easure | d at a j | pressur | e base (| of 15.03 | 25 psia and a 1 | of 15.025 psia and a temperature of 60 °F. | 50 °F. | × | Kelly Cook | > _ | | Re | scords F | Records Processor |
| Report casing pressure in lieu of tubing pressure for any well producing through casing. | tubing p | ressur | tor a | ly well | produc | ing thre | ough casing. | | | 4 | Printed name and title | e and title | • | | | |
| | | | | | | I | • | | | | 1/13/98 | | | 39 | 393-7106 | |
| See Rule 301, Rule 1116 & appropriate pool rules.) | propri | ate po | 2 N S | lles.) | | | | | | | Date | | | | Telephone No. | ne No. |

Form C-116 Revised 1/1/89

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