DHC 3/8/99

Houston Division
Production Operations, United States



February 3, 1999

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
E. Mitchusson '4' St. No. 1
1980' FSL & 1980' FWL
Section 4, T-19-S, R-28-E
Wolfcamp and Upper Penn Pools
Travis Field

Eddy Co., NM

P.O. Box 2490 Hobbs, New Mexico 88240 Telephone 505/393-7106

D 333



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 Travis, Wolfcamp and Travis, Upper Penn.

The well is currently producing from the Wolfcamp, and it is reaching its producible economic limit. For this reason Marathon is requesting to downhole commingle the Wolfcamp and the Upper Penn zones to maximize the economical production from the well. 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 advise.

Sincerely,

Andrew J. Schwandt Production Engineer

BLW//regltory/dhc/coverpag/Mitch_B.doc Enclosure



P.O. Box 2490 Hobbs, New Mexico 88240 Telephone 505/393-7106

February 3, 1999

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

Re: Request for Exception to Rule 303-A
Downhole Commingling
E. Mitchusson '4' St. No. 1
1980' FSL & 1980' FWL
Section 4, T-19-S, R-28-E
Wolfcamp and Upper Penn Pools
Travis Field
Eddy Co., NM

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 Travis, Wolfcamp and Travis, Upper Penn.

The well is currently producing from the Wolfcamp, and it is reaching its producible economic limit. For this reason Marathon is requesting to downhole commingle the Wolfcamp and the Upper Penn zones to maximize the economical production from the well. 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 advise.

Sincerely,

Andrew J. Schwandt Production Engineer

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P.O. Box 2490 Hobbs, New Mexico 88240 Telephone 505/393-7106

February 3, 1999

Mr. Tim Gum District 2 Supervisor Oil Conservation Division 811 S. First St. Artesia, NM 88210

Re: Request for Exception to Rule 303-A

Downhole Commingling
E. Mitchusson '4' St. No. 1
1980' FSL & 1980' FWL
Section 4, T-19-S, R-28-E
Wolfcamp and Upper Penn Pools
Travis Field
Eddy Co., NM

Dear Mr. Gum:

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 Travis, Wolfcamp and Travis, Upper Penn.

The well is currently producing from the Wolfcamp, and it is reaching its producible economic limit. For this reason Marathon is requesting to downhole commingle the Wolfcamp and the Upper Penn zones to maximize the economical production from the well. 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 advise.

Sincerely,

Andrew J. Schwandt Production Engineer

BLW//regltory/dhc/coverpag/Mitch_C.doc Enclosure

J. S. S. S.



P.O. Box 2490 Hobbs, New Mexico 88240 Telephone 505/393-7106

February 4, 1999

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

Re:

Request for Exception to Rule 303-A

Downhole Commingling E. Mitchusson '4' St. No. 1 1980' FSL & 1980' FWL Section 4, T-19-S, R-28-E Eddy Co., New Mexico

Travis: Wolfcamp and Upper Penn

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,

Cla J S lland

Andrew J. Schwandt

Production Engineer

n:\regltory\commling\dhc\wio\Mitchl Enclosure

| Agreed and accepted this | day of | 1998 |
|--------------------------|--------|------------------------|
| by | | , as representative of |
| | | • |
| | | |

REQUEST FOR EXCEPTION TO RULE 303-A E. Mitchusson '4' No. 1 Travis Field

A: Operator

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

B: Lease Name and Well Number

E. Mitchusson '4' St. No. 1 1980' FSL & 1980' FWL Section 4, T-19-S, R-28-E Eddy Co., New Mexico Travis: Wolfcamp and Upper Penn

C: Plats and Offset Operators

Attached

D: Form C-116

Attached

E: Production Decline Curves

Attached

F: Estimated Bottomhole Pressures

Travis (Wolfcamp) - ±2000 psi Travis (Upper Penn) - ±2100 psi

G: Fluid Characteristics

Marathon is currently surface commingling (R-11112) production from the Travis, Wolfcamp and Travis, Upper Penn Pools with no 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 E. Mitchusson '4' No. 1 Page 2

I: Production Allocation

| Pool | BOPD | MCFPD | BWPD | Test Method |
|-------------------------|-----------------|-----------------------------|------------------|--------------|
| Travis (Wolfcamp) | 3 | 13 | 2 | 12/1/98 Test |
| Travis (Upper Penn) | $\frac{10}{13}$ | 43 56 | $\frac{3}{5}$ | 8/19/98 Test |
| | 13 | 56 | 5 | |
| Allocated Percentag | es Oil % | Gas % | Water % | |
| Post-workover utilizing | ng above produ | ection | | |
| Travis (Wolfcamp) | 23% | 6 23% | 40% | |
| Travis (Upper Penn) | 77% | <u>6 77%</u> | <u>60%</u> | |
| Total | 100 | 100 | $1\overline{00}$ | |

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.

Marathon Oil Company
E. Mitchusson '4' No. 1
UL K, Sec. 4, T-19-S, R-28-E
1980' FSL & 1980' FWL
Travis Field
Eddy Co., NM

Offset Operators and Addresses

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

Revised 1/1/89 Form C-116

State of New Mexico Energy, Minerals and Natural Resources Department

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

811 S. 1st Street, Artesia, NM 88210-2834

DISTRICT II

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

GAS - OIL RATIO TEST

| | | | | | | Pool | of the state of th | 160000 | youll / | Donn | | ŏ | County | " | > | |
|--|---|---|----------|----------|-----|-----------------|--|----------|-----------|----------------|---------------------|---------------|--------------|-------------------|---------------|--------------------|
| } | | | | | | = | ravis: Wolfcamp / Upper Penn | TCamp | / nbber | . renn | | _ | | | , nn | |
| ddress P.O. Box 2490 Hobbs NN 88240 | | | | | | | TYPE OF TEST - (X) | | Scheduled | | ŏ | Completion | | ςς | Special X | |
| | 1 | | NOTACO | Z | | | \perp | \vdash | - | | LENGTH | | PROD. DL | PROD. DURING TEST | | GAS-OIL |
| WELL NO | _ | 5 | S | <u> </u> | œ | DATE OF TEST | CHOKE SIZE SIZE | | TBG. A | ALLOW- ABLE | OF TEST HOURS | WATER BBLS | GRAV. OIL | OIL BBLS. | GAS M.C.F. | RATIO CU.FT/BBL |
| 1 × | ~ | | 4 | 195 | 28E | | a | | | | | | | | | |
| | | | | | | | | | | | | · | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | 12/1/98 | Well | | Test | • | 24 | 2 | | က | 13 | 4300 |
| | | | <u> </u> | | | 8/19/98 | Well | | Test | | 24 | က | | 10 | 43 | 4300 |
| | | | | | | | | <u></u> | | | | | | | | |
| | | | | | | | | | <u> </u> | | | | | | | |
| | | | | | | | | _ | III. PLV | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | - | | | | | | | | | | | |

Instructions:

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

Telephone No. **Production Engineer** complete to the best of my knowledge and belief. 393-7106 Andrew J. Schwandt Printed name and title Signatuffe **2/8/99** Date

I hereby certify that the above information is true and

State of New Mexico energy, Minerals & Natural Resources Department

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 DEPORT

PO Box 1980, Hobbs, NM 88241-1980 District II OIL CONS 811 S. 1st Street, Artesia, NM 88210-2834 District III San 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

District I

| 2040 South Pachec | o, Santa Fe, | NM 87505 | | | | | | | | SADED REI OR I |
|-----------------------|------------------|--------------|-----------------------------|----------------------|-------------------------|----------|-----------------------------|-----------------------|---------------|----------------|
| | | WE | LL LOCA | TION | AND ACE | REAG | E DEDICA | TION PLA | T | |
| 1 | API Numb | er | | ² Pool Co | ode | | | ³ Pool Nam | 18 | |
| 30 | 0-01 <u>5-30</u> | 165 | | 9683 | 3 | | | Travis Wol | fcamp | |
| ⁴ Property | Code | | | | 5 Proper | rty Name | • | | | 6 Well Number |
| 2314 | 45 | I I | | E | Edward Mitch | husson | 4 State | | | 1 |
| 7 OGRID | | | | | | tor Name | | | | 9 Elevation |
| 0140 | 121 | 1 | | | Marathon | 011 Cc | ompany | | | 3549' GL |
| | | | | | ¹⁰ Surface I | | | | | |
| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from t | the I | North/South Line | Feet from the | East/West lin | e County |
| K | 4 | 195 | 28E | 1 | 1980 |)* | South | 1980° | West | Eddy |
| | | | 11 Bo | ottom Hol | e Location If | Differe | ent From Surfac | ė | | |
| UL or lot no. | Section | Townshi | p Range | Lot. Idn | Feet from t | the | North/South Line | Feet from the | East/West lin | ne County |
| | | | . [| <u> </u> | | [. | | | | |
| 12 Dedicated Acre | s 13 Joir | nt or Infill | ¹⁴ Consolidation | n Code 15 | Order No. | | | | | |
| 40 | | | | | | | | | | |
| NO ALLOV | WABLE V | | | | | | NTIL ALL INT APPROVED BY | | | ONSOLIDATED |
| | | | | | | | 4 | | | IFICATION |

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

4

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

Signature Bryan L. Williams
Printed Name
Production Engineer
Title
11/12/98
Date

18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual turveys made by me or under my inspersation, and that the same is true and correctto the best of my belief.

SEE ORIGINAL
Date of Survey
Signature and Seal of Professional Surveyer:

1980'

320 ACRE LEASE

Certificate Number

DISTRICT [P.D. BOE 1980. Bobbs. NM 88241-1980

State of New Mexico

Energy, Minerale and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drewer DD, Artesia, NK 86211-9719

DISTRICT III ... LOGO Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2006, SANTA PE, N.M. 87504-2089

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Code P | ool Name |
|--------------------|---|--------------------|
| | Undesignated - Travis | -Upper Penn · |
| Property Code | Property Name EDWARD MITCHUSSON 4 STATE | Well Number |
| OGRED No. 14021 | Operator Name MARATHON OIL COMPANY | Elevation 3549' |

Surface Location

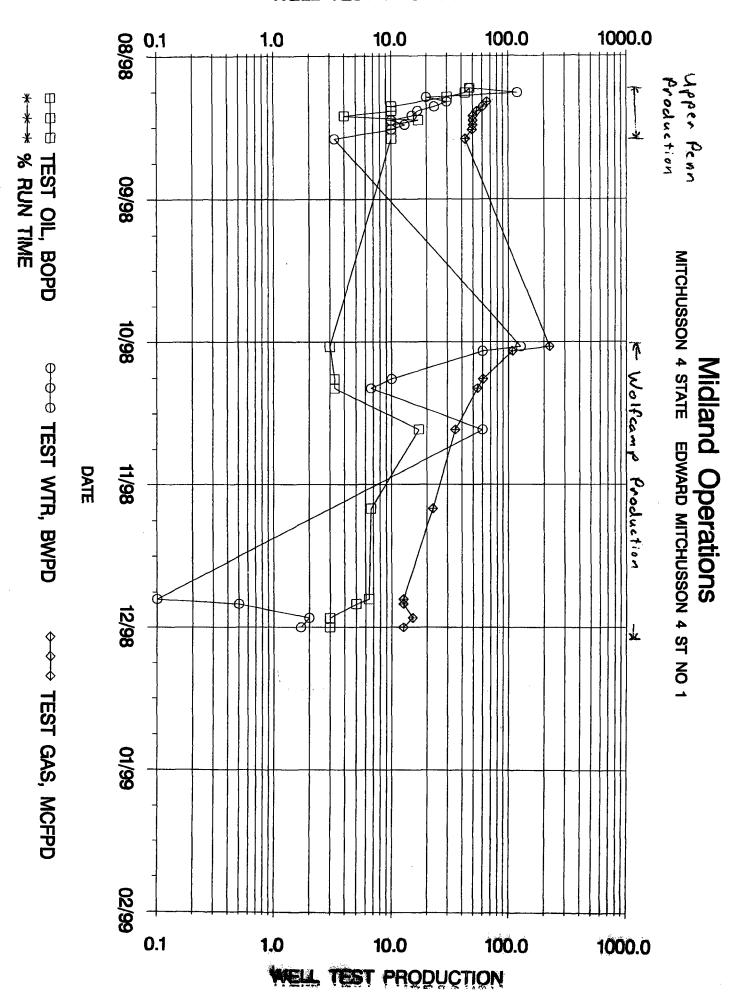
| UL or lot No. | Section | Township | Range | Lot ida | Feet from the | North/South Line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| K | 4 | 19 \$ | 28 E | , | 1980 | SOUTH | 1980 | WEST | EDDY |

Bottom Hole Location If Different From Surface

| UL or lot No. Se | ction Townshi | ip Range La | t idn | Feet from U | North/S | outh line | Peet from the | East/West line | County |
|---------------------------------|-----------------|--------------------|-------|-------------|---------|-----------|---------------|----------------|--------|
| Dedicated Acres 80 N/2, SW/4 | Joint or Infill | Consolidation Code | On | der No. | | | | , | |

| NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERES OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE | |
|--|--|
| | OPERATOR CERTIFICATION / hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef. |
| | D. P. Nordt Printed Name Drilling Superintendent |
| | Title 3/18/98 Date SURVEYOR CERTIFICATION |
| 1980' | 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 supervison, and that the same is true and correct to the best of my bellef. |
| 986 | Date Surreyed CDG Signature & Seal of Professional Surveyor |
| | Certificate Ro. RONALL EDSON 5239 CART ETSON 12641 |

WELL TEST PRODUCTION



DISTRICT I

P.O. Box 1980, Hobbs. NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

Form C-107-A New 3-12-96

811 South First St., Artesia, NM 88210

APPROVAL PROCESS:

DISTRICT II

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

__Administrative ___Hearing

EXISTING WELLBORE ١G

| DICTRICT III | Santa re, New Mexico 8/300-0429 |
|-------------------------------------|---|
| DISTRICT III | 4 DEL 10 4 TION FOR DOWNING F COMMINGUE |
| 1000 Rio Brazos Rd, Aztac. NM 87410 | APPLICATION FOR DOWNHOLE COMMINGLIN |

X YES _ NO

| Marathon Oil Company | PO I | Box 2490 Hobbs, N | 88240 |
|--|--|---|--|
| Edward Mitchusson 4 Sta | ate 1 K | 4 19S 28E Sec-Twp - Nge | Eddy County |
| OGRID NO. 014021 Property Code | | Spi | coing Unit Lease Types: (check 1 or more), State X, (and/or) Fee |
| The following facts are submitted in support of downhole commingling: | Upper Zono | Intermediate Zones | Lower Zone |
| Pool Name and Pool Code | Wolfcamp 96833 | | Upper Penn 59860 |
| Top and Bottom of Pay Section (Perforations) | 8894 - 9586* | | 9673 🖚 9786' |
| 3. Type of production (Oil or Gas) | 011 | | Oi1 |
| Method of Production (Flowing or Artificial Lift) | Artificial Lift | | Artificial Lift |
| 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current | a. (Current) 2000 | a. | a. 2100 |
| Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original | b. ^(Original) 2400 | b. | b. 2300 |
| 6. Oil Gravity (* API) or Gas BTU Content | 42 | | 45 |
| 7. Producing or Shut-In? | Producing | | Shut-In |
| Production Marginal? (yes or no) | Yes | | Yes |
| * If Shut-In, give date and oil/ges/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach | Date: Rates: | Date: Rates: | Date: 8/19/98 Rates: 10/43/3 |
| If Producing, give date andoil/gas/ water rates of recent test (within 60 days) | Date: 12/1/98 Rates: 3/13/2 | Date: Rates: | Date: Rates: |
| 8. Fixed Percentage Allocation Formula -% for each zone | Oil: 23 _% Gas: 23 % | Oil: Gas: % | Oil: 77 % Gas: 77 % |
| 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a if not, have all working, over Have all offset operators been | | | based upon some other method ojections or other required data. X Yes No |
| Have all offset operators been 11. Will cross-flow occur? flowed production be recove | n given written notice of the province $\frac{X}{X}$ No. If yes, are fluids | oposed downhole commingling compatible, will the formations | Yes No No not be damaged, will any cross |
| 12. Are all produced fluids from | | | |
| 13. Will the value of production | | | |
| 14. If this well is on, or commun United States Bureau of Lan | itized with, state or federal lar | nds, either the Commissioner o | Public Lands or the |
| 15. NMOCD Reference Cases for | r Rule 303(C) Exceptions: | ORDER NO(S). | NO |
| 16. ATTACHMENTS: * C-102 for each zo * Production curve for zones with no * Data to support al * Notification list of | one to be commingled showing for each zone for at least one of production history, estimated llocation methods or formula. | its spacing unit and acreage dyear. (If not available, attach e production rates and supporting interests for uncommon intereguired to support comminglin | edication. explaination.) ng data. |
| I hereby certify that the informat | | | |
| TYPE OR PRINT NAME And | / | TITLE Production Engir | |
| | | TELEFHUNE NU. | 1 500 1 500-7100 |