Mid-Continent Region Production United States

APR 26 1995



April 24, 1995

P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

OIL CONSERVATION DIV. SANTA FE

1130

Mr. David Catanach
State of New Mexico
Oil Conservation Division
Energy and Minerals Department
2040 South Pacheco
Santa Fe, New Mexico 87501

Re: Request for Exception to Rule 303-A
Downhole Commingling
Dayton Hardy No. 3
UL "J" 1980' FSL & 1980' FEL
Sec. 20, T-21-S, R-37-E
Blinebry and Drinkard Pools
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 Drinkard and Blinebry formations in the above mentioned well.

This well was recently plugged back and recompleted, then swab tested in the Drinkard oil and gas pool. A retrievable bridge plug was set isolating the Drinkard. The Blinebry was then perforated, acidized and is now being rod pumped.

Commingling of the two zones will allow for incremental production to be gained from the Drinkard while continuing to produce the Blinebry Pool. This will reduce waste and maximize the productive capability of the wellbore. It will also allow Marathon to use its existing production equipment to its optimum efficiency. The well will continue to be rod pumped keeping producing reservoir pressures and minimizing cross flow.

Enclosed is the pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please contact Tom Price at (915) 687-8324.

Sincerely,

Thomas infrice

Thomas M. Price
Advanced Engineering Technician

TMP\9507\jb

Attachments

REQUEST FOR EXCEPTION TO RULE 303-A Dayton Hardy # 3 Downhole Commingle Blinebry Oil & Gas & Drinkard Pools

A: Operator Marathon Oil Company P.O. Box 552 Midland, Texas 79702

B: Lease Name & Well No
Dayton Hardy No. 3
UL "J" 1980' FSL & 1980' FEL
Sec 20, T-21-S, R-37-E
Lea Co., New Mexico

C: <u>Plats and Offset Operators</u> Attached

D: <u>C-116's</u> Attached

TOTAL

E: Production Decline Curves
The Blinebry is a recent completion and no production data is available for Drinkard since 1970. See attached notices and completion reports in lieu of production decline curves as per Rule 303-A section "D" item (5).

F: Estimated Bottomhole Pressures
Blinebry - calculated - 400
Drinkard - measured - 414

G: <u>Fluid Characteristics</u>
Marathon has surface commingled the produced fluids from both zones without compatibility problems.

H: <u>Value</u>
Marathon receives the same price for product from both zones and value will not be adversely affected. If the Downhole Commingling is permitted additional reserves will be recovered from the Tubb, while maximizing recoveries from the Blinebry.

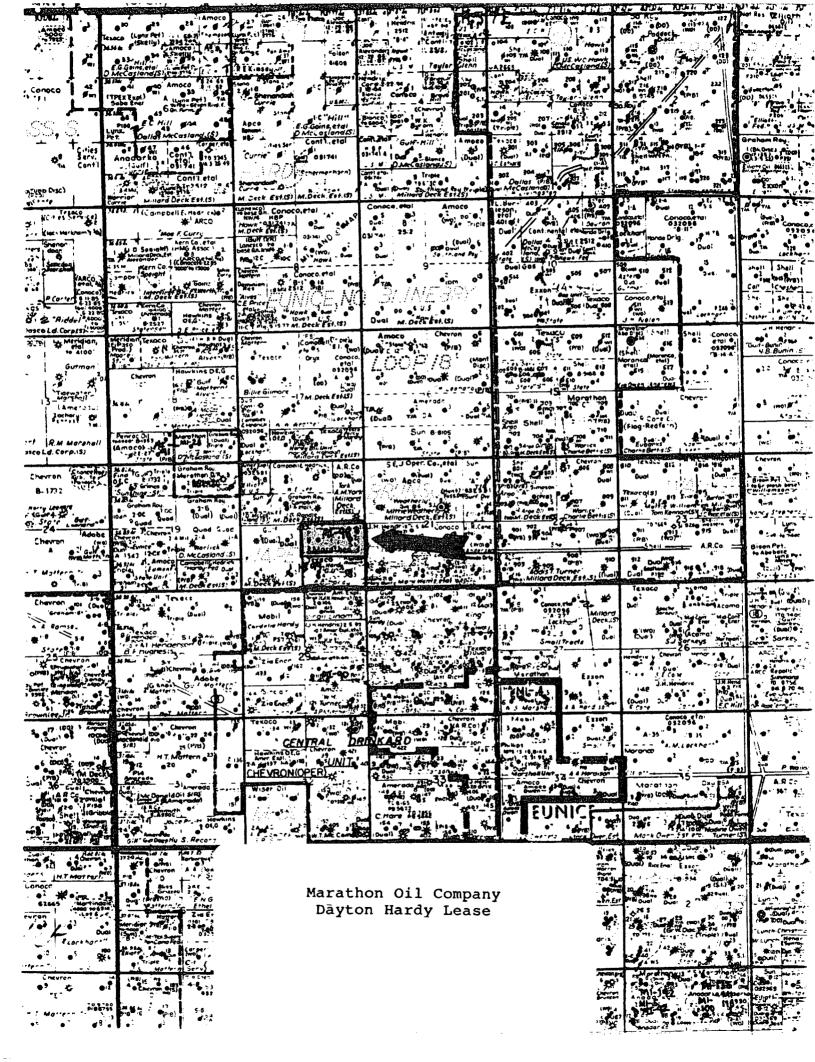
I:	Production Pool	n Allocatio BOPD	on MCFP	<u>D</u>	BWPD		ESTI	MATE METHOD
	Blinebry <u>Drinkard</u> TOTAL	14 <u>6</u> 20	107 <u>30</u> 137		19 <u>43</u> 62			Tests Tests
	Allocated Blinebry Drinkard	Percentage	<u>es</u>	Oil 8 70 30	<u>\$</u>	Gas 3 78 22	<u> </u>	<u>Water %</u> 31 69

100

100

100

- J: Ownership
 Ownership of all zones is in common and correlative rights will not be violated.
- K: Offset Operator Notification
 By copy of this letter we are notifying all offset operators (see list, Item C) of the proposed commingling, by certified mail.



Marathon Oil Company Dayton Hardy Lease N/2 SE/4 Section 20, T-21-S, R-37-E Lea County, New Mexico Offset Operators and Addresses

Section 20, Township 21-S, Range 37-E

Cross Timbers Operating Company 810 Houston St., Ste 2000 Ft. Worth, TX 76102-6298

Campbell and Hedrick P.O. Box 401 Midland, TX 79702-0401

American Exploration Company 1331 Lamar, Ste 900 Houston, TX 77010-3088

John H. Hendrix Corp. 223 W. Wall, Ste. 525 Midland, TX 79701-4519

P & P Producing Incorporated P.O. Box 3178 Midland, TX 79702-3178

Chevron USA Incorporated 15 Smith Rd., Midland, TX 79705 P.O. Box 1150 Midland, TX 70702-1150

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

Section 21, Township 21-S, Range 37-E

Stevens and Johnson Operating Co. P.O. Box 2249
Witcha Falls, TX 76307-2249

Conoco Incorporated 10 Desta Drive, Ste 100W Midland, TX 79705



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

April 20, 1995

Offset Operators

Dayton Hardy Lease
(Mailing List Attached)

Re: Request for Exception to Rule 303-A
Downhole Commingling
Dayton Hardy No. 3
UL "J" 1980' FSL and 1980' FEL
Sec. 20, T-21-S, R-37-E
Blinebry and Drinkard Pools
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 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 attached addressed envelope. Also, please return one copy to Marathon at the letterhead address.

Sincerely,

Thomas M. Price Advanced Engineering Technician

TMP/9509/ir Enclosure

Agreed and accepted this	day of	199!
ьу		as representative of

State of New Mexico Energy, Minerals and Natural Resources Department

Revised 1/1/89 Form C-116

OIL CONSERVATION DIVISION

Santa Fe, New Mev. 987504-2088 P.O. Box 2088

> DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 P.O. Drawer DD, Artesia, NM 88210

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

DISTRICT II

Submit 2 copies to Appropriate

District Office.

GAS - OIL RAFIO TEST

Operator Marathon Oil Company					<u> </u>	Pool BLINEBRY OIL & GAS / DRINKARD	R GAS /	/ DRINK	ARD			<u>o</u>	County			
Address P.O. Box 552, Midland, TX 79702	702						TYPE OF TEST - (X)	F(X)	Scheduled		ď	Completion		ที	Special X	
	WELL		۲۵	LOCATION		DATE OF		CHOKE	TBG	DAILY	LENGTH		PROD. DU	#	1. I	GAS - OIL
LEASE NAME	<u>S</u>	_	ဟ	-	<u>«</u>	TEST	TATS	SIZE	PRESS.	ALLOW- ABLE	TEST HOURS	WATER BBLS.	GRAV.	OIL BBLS	GAS M.C.F.	RATIO CU.FT/BBL
DAYTON HARDY "C"	က	٦	20	218	37E	4/15/95	۵	NONE	¥		24	19	37.7	41	107	7643
BLINEBRY OIL & GAS																
DAYTON HARDY "C"	_ ღ	7	208	218	37E	3/22/95	Ø	NONE	¥		24	4 3	38.2	9	30	2000
DRINKARD								-								
CALCULATED FROM SWAB TEST																
DHC PERMITTING USE ONLY					···········											
					· · · ·											
																
	_															
Instructions:										I	I hereby certify that the above information is true and	tify that	the abo	ve inform	ration is	rue and

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.

915/687/8324

Printed name and title Thomas M. Price

Signature

4/20/95

Date

complete to the best of my knowledge and belief.

Submit 3 Copies to Appropriate
District Office

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

DISTRICT I	OIL CONSERVATIO	N DIVISION	
P.O. Box 1980, Hobbs NM 88240	P.O. Box 208	38	30-025-06689
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease
DISTRICT III			STATE FEE X
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
_	ICES AND REPORTS ON WELI		
(DO NOT USE THIS FORM FOR PR	OPOSALS TO DRILL OR TO DEEPEN OF REVOIR. USE "APPLICATION FOR PERI	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
	2-101) FOR SUCH PROPOSALS.)		DAYTON HARDY "C"
1. Type of Well: OIL GAS WELL X WELL] other		
2. Name of Operator			8. Well No.
Marathon Oil Company			3
3. Address of Operator P.O. Box 552, Midland,	TX 79702		9. Pool name or Wildcat BLINEBRY/DRINKARD
4. Well Location Unit Letter J : 198		Line and 198	80 Feet From The EAST Line
Olin Zetter	- Tool I tom I mo		Tect from the
Section 20			NMPM LEA County
	10. Elevation (Show whether	er DF, RKB, RT, GR, etc : 3495 KB : 3506)
Check A			Papart or Other Date
•	ppropriate Box to Indicate	1	• '
NOTICE OF	NTENTION TO:	308	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	MENT JOB 🖸
OTHER:		OTHER: RECOMPLE	TE BLINEBRY & DRINKARD 🕟
12. Describe Proposed or Completed Ope	erations (Clearly state all pertinent deta	l ils, and give pertinent date	es, including estimated date of starting any proposed
PERFS 3940-64 W/50SX CL DRILLED OUT CMT & RETAI DRILLED CMT & RETAINER C/O TO 6671' TD. ACIDIZ FRAC TANK. RAN STATIC E 6479-6592 W/2JSP4 -116 TANK. RETRIEVED RBP & F 5620-35, 5648-52, 5665- HOLES). ACIDIZED BLINEE FOAM & 133,000# SAND. E 5872'. INSTALLED 2 3/8'	3884-3967. TESTED SQZ 3 ZED OPEN HOLE SECTION W/ BHP. SET RBP @ 6605'. LC HOLES. ACIDIZED 6479-65 RESET @ 5910'. LOADED HO -80, 5774-85, 5805-10, 5 BRY W/3000 GALLONS 15% H	BURG PERFS 3709- STED 3709-3822 S 8940-64 TO 1000 4500 GALLONS 15 80ADED HOLE W/2% 892 W/5500 GALLO 80LE W/2% KCL. PE 8815-20, 5830-35 80CL. FRACTURED W 80 CLEAN UP. POO 80 NU TREE. INST	-3822 W/125 SX CLASS "C" CMT. SQZ TO 1000 PSI. TEST OK. PSI. DRILLED OUT CIBP @ 5352. 5% HCL. SWABBED BACK TO KCL. PERFORATD DRINKARD DNS 15% HCL. SWABBED TO FRAC ERFED BLINEBRY 5586-90, 5600-10, 5, 5858-62 W/2 JSPF. (156 N/50.000 GALLONS 65 QUALITY CO2 DH W/STIMULATION STRING. C/0 TO
I hereby certify that the information above is	que and complete to the best of my knowledge	e and belief.	
SIGNATURE Two me		LE AET	DATE 4-19-95
TYPE OR PRINT NAME TOM M. PRIC	E		TELEPHONE NO.915 - 682 - 1626
(This space for State Use)			

__ TITLE _

TIMP State of New Mexico Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies DISTRICT I Form C 105 Revised Y-1-89 Energy, Minerals and Natural Resources Department WELL API NO. **OIL CONSERVATION DIVISION** 30-025-06689 P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 Santa Fe, New Mexico 87504-2088 5. Indicate Type Of Lease DISTRICT II
P.O. Drawer DD, Artesia, NM 88210 STATE [FEE X 6. State Oil & Gas Lease No. DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 WELL COMPLETION OR RECOMPLETION REPORT AND LOG la. Type of Well: 7. Lease Name or Unit Agreement Name OIL WELL GAS WELL DRY 🗍 OTHER DAYTON HARDY "C" b. Type of Completion: NEW | WORK DEEPEN PLUG BACK DIFF X OTHER 8. Well No. 2. Name of Operator Marathon Oil Company 3

Marathon Oil Co	ompany					3			
. Address of Operator					-	9. Pool na	me or Wildcat		
P.O. Box 552, I	Midland, TX 79	702				BLIN	EBRY		
. Well Location									
Unit Letter J	<u> 1980</u>	Feet From The	SOUTH	Line a	nd <u>1980</u>	Fe	et From The E	AST	Line
Section 20		Township 21-	-	nge 37-E		MPM LEA		-i	County
• 1	11. Date T.D. Reache	i	Compl.(Ready to Pro	od.) 13.			T, GR, etc.)	4. Elev.	Casinghead
3-7-95		4-5				KB:3506			
5. Total Depth	16. Plug Baci	ı	17. If Multiple Con Many Zones?	npl. How	18. Interval Drilled	Rv i	Tools	Cable To	ols
6617 9. Producing Interval(RBP @		-	<u> </u>		ALL	120 11/2 15:		
5586-5862 BL	•	- 10p, Bottom, Na	ime				20. Was Dire	ctional Si	urvey Made
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24.	TOD	LINER RECO		T CODE	25		UBING RECO		1
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io. Perioration recor	id (lineivai, size, ai	id number)			H INTERVA		OUNT AND KI		
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					-5862		00 GALLONS		
				5586-	-5862		000# SAND		
28.			PRODUCTION	ON			OUT ON TO		
Date First Production			ng, gas lift, pumpin	ig - Size and t	ype pump)		Well Statu	s (Prod.	or Shut-in)
4-5-95	1 1/3	2" ROD PUMP					PROD		
Date of Test 4-15-95	Hours Tested 24	Choke Size NONE	Prod'n For Test Period	Oil - Bbl.	Gas -		ater - Bbl.	Gas - 0	Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24	- Oil - B bl.	Gas - M	CF W	ater - Bbl.	Oil Gravit	v - API +	(Corr.)
PUMP	25	Hour Rate	14	107	1	9	37.7		•
29. Disposition of Gas	(Sold, used for fuel,	vented, etc.)				Test	Witnessed By		
ENTED						T	. W. HALLUI	M	
30. List Attachments									
31. I hereby certify tha	at the information sh	own on both sides	of this form is true	and complet	e to the best	of my knowled	ige and belief		
				-		-			
Signature	 		Printed Name TOM N	A. PRICE		Title AET		~	_e 4-19-95
	<u> </u>	-1	, tanne			_ Title AE !		Dat	e - 10-55

Submit 3 Copies to Appropriate

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any work) SEE RULE 1103. Marathon Oil Co is requesting permission to downhole commingle the Blinebry Oil & Gas Drinkard pools in this well. This work would be acomplished by removing a retrievable plug from 5,910' and lowering the tubing in the well.	District Office					
Santa Fe, New Mexico 87504-2088 Santa Fe, New Mexico 87504-2088				WELL API NO.		***
DISTRICT III TOOD Ris Brazes Rd., Aziec, NM 87410 6. State Oil & Gas Lesse No.	DISTRICT II			5. Indicate Type		
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOR LOSE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: 2. Name of Operator Marathon 011 Company 3. Address of Operator Marathon 011 Company 3. Address of Operator Unit Letter 2. Name of Operator Marathon 011 Company 3. Address of Operator Marathon 011 Company				(0 . 070.0		FEE X
(OO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOR. USE 'APPLICATION FOR PERMIT' [FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well. Well Well OTHER	000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & G	as Lease No.	
DIFFERENT RESERVOIR USE 'APPLICATION FOR PERMIT' (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: OIL						
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Marathon 0il Company 3 3 9. Pool name or Wildcat 9. Pool nam	. Type of Well: OIL GAS WELL X WELL	OTHER				
3. Address of Operator P.O. Box 552, Midland, TX 79702 4. Well Location Unit Letter J 1980 Feet From The SOUTH Line and 1980 Feet From The EAST Section 20 Township 21.5 Range 37.E NMPM LEA 10. Elevation (Show whether DF, RRB, RT, GR, etc.) 10. Elevation (Show whether DF, RRB, RT, GR, etc.) 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK	=			i .		
P.O. Box 552, Midland, TX 79702 BLINEBRY/DRINKARD				 	Wildoot	
Unit Letter J : 1980 Feet From The SOUTH Line and 1980 Feet From The EAST Section 20 Township 21 · S Range 37 · E NMPM LEA	.O. Box 552, Midland, T	79702				
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF	1 1000	Feet From The SOUTH	Line and19	80 Feet Fro	om The EAST	Line
Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS CASING TEMPORARILY ABANDON CHANGE PLANS CASING TEST AND CEMENT JOB OTHER. Downhole Commingle OTHER. Downhole Commingle 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any work) SEE RULE 1103. Marathon 0il Co is requesting permission to downhole commingle the Blinebry 0il & Gas Drinkard pools in this well. This work would be acomplished by removing a retrievable plug from 5,910 and lowering the tubing in the well.	Section 20				LEA	County
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDON CASING TEST AND CEMENT JOB OTHER: Downhole Commingle THER: RECOMPLETE BLINEBRY & DRINKARD OTHER: RECOMPLETE BLINEBRY & DRINKARD WORK) SEE RULE 1103. Marathon 0il C o is requesting permission to downhole commingle the Blinebry 0il & Gas Drinkard pools in this well. This work would be acomplished by removing a retrievable plug from 5,910' and lowering the tubing in the well.				c.)		
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	work) SEERULE1103. Harathon Oil Co is reque: Prinkard pools in this we	ting permission to c ll. This work would	downhole comming be acomplished	=	_	
	Thereby certify that the information flave is tru	and complete to the best of my knowled	doe and ballef			
I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE					A 20 0	25
			ILE /M-1			
TYPE OR PRINT NAME TOM M. PRICE (This space for State Use)					TELEPHONE NO. 915 - (<u> 287-8324</u>
APPROVED BY DATE	PPROVED BY	тп	LE		DATE	