Houston Division Production Operations, United States O'L CONSERVE TON DIVISION RECEIVED



'SH PO. Box 240910 Hobbs, NM 88241-24090 Telephone 505/393-7106



May 23, 1994

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

> **REQUEST FOR EXCEPTION TO RULE 303-A** RE: DOWNHOLE COMMINGLING LOU WORTHAN WELL NO. 10 UNIT D, 585' FNL & 660' FWL SECTION 11, T-22-S, R-37-E TUBB AND DRINKARD 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 and Drinkard formations in the above mentioned well.

Currently, the well is a Tubb producer that is rod pumped. The Drinkard is isolated below a CIBP (see attached wellbore sketch). It is proposed to drill out the CIBP, downhole commingle the Tubb and Drinkard, and rod pump both zones. This method of producing the well will ensure maximum drawdown on each formation and recover additional reserves from the Drinkard and produce both 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,

Nua

S.P. Guidry Northwest Operations Production Superintendent

RDG:SPG/9455/kc

Attachments

REQUEST FOR EXCEPTION TO RULE 303-A

LOU WORTHAN WELL NO. 10 DRINKARD FIELD

- (A) Marathon Oil Company PO Box 2409 Hobbs, NM 88240
- (B) Lou Worthan Well No. 10 Unit D, 585' FNL and 660' FWL Section 11, T-22-S, R-37-E Lea County, New Mexico Commingle Zones: Tubb Drinkard
- (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 and Drinkard are attached.
- (F) <u>Estimated</u> bottomhole pressure for each zone:

Tubb	450	psia
Drinkard	400	psia

ð,

- (G) Marathon is commingling the fluids at the surface and has not encountered incompatibility problems.
- (H) If the downhole commingling is approved, additional reserves will be recovered from the Drinkard while maximizing recoveries from the Tubb.

(I)

Production from the latest GOR test as follows:

FORMATION	<u>OIL (bpd)</u>	<u>GAS (mcfd)</u>	WATER (bpd)
Tubb Drinkard*	2 1	177 200	0
TOTAL	3	377	1

* Estimated due to shut-in status.

Allocated Percentages should be:

FORMATION	<u>OIL (%)</u>	<u>GAS (mcfd)</u>	WATER (bpd)
Tubb Drinkard	67 33	47 53	0 100
TOTAL	100	100	100

- (J) Ownership of the two 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.

RDG/9456/kc

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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., Aztee, 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

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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, Minerais & 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

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¹¹ Bottom Hole Location If Different From Surface														
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P.O. Drawer DD, Artesia, NM 88210	DISTRICT II	P.O. Box 1980, Hobbs, NM 88240	DISTRICT	District Office.	Submit 2 copies to Appropriate

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Revised 1/1/89 Form C-116

OIL CONSERVATION DIVISION

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

GAS - OIL, RATIO TEST

Du which w	Instructions:	· <u></u>			* Zo Es	Lou			Address	Operator	
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.	tions:			to and	Zone is below CIBP, Estimated rates for information only.	Worthan	LEASE NAME		PO Box 2409 Hobbs,	r Marathon Oil Company	
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(See Rule 301, Rule 1116 & appropriate pool rules.)

Date

May 20, 1994

(505) 393-7106

Telephone No.

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	Submit 2 copies to Appropriate
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State of New Mexico Energy, Minerals and Natural Resources Department

Revised 1/1/89 Form C-116

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

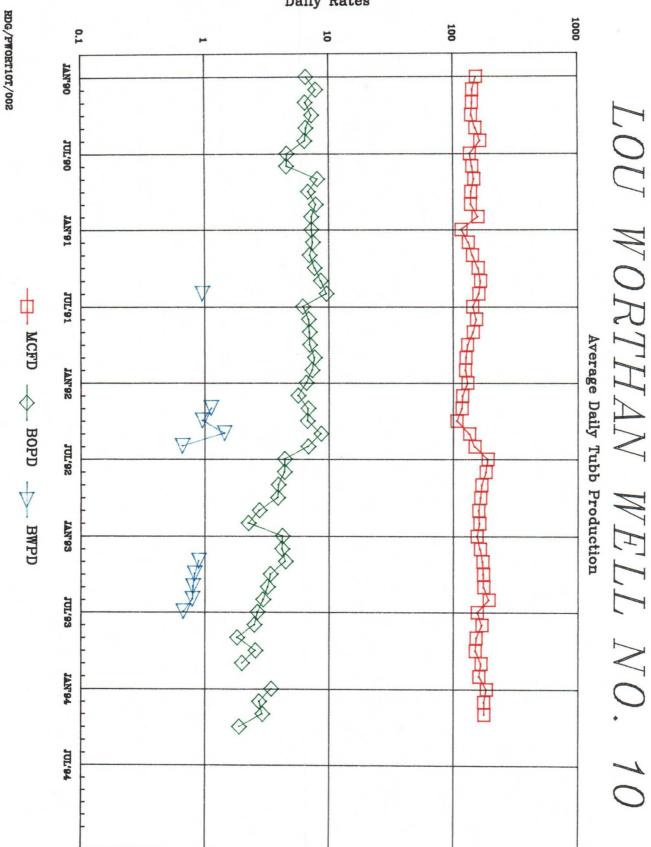
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Instructions: During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance 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.		Lou Worthan	LEASE NAME	Address PO Box 2409, Hobbs, N	Operator Marathon Oil Company
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(See Rule 301, Rule 1116 & appropriate pool rules.)

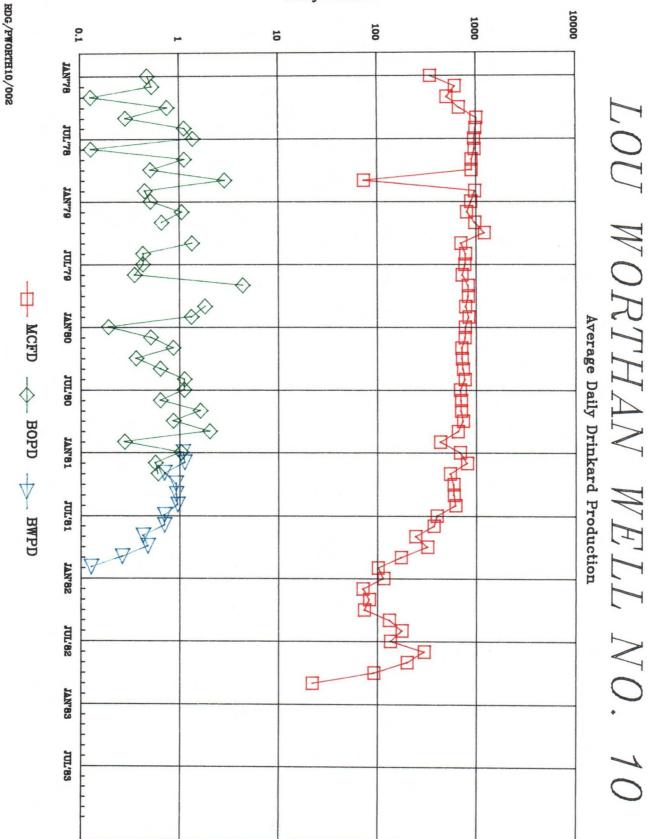
Date

(505) 393-7106

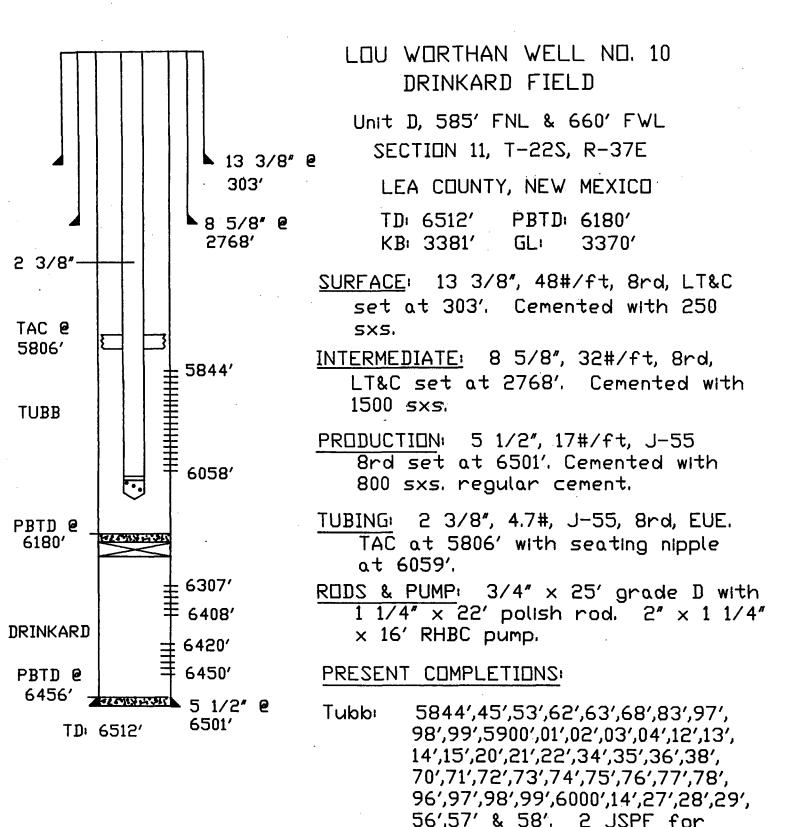
Telephone No.



Daily Rates



Daily Rates



HISTORY: Drilled December, 1949 as a Drinkard gas well. IP'd at top allowable of 98 BOPD and 176 MCFD. Added upper Drinkard pay in 3/74. Acidized 6420-50' and frac'd new perfs 6307'-6408'. IP'd for 1023 MCFD. No record of RBP being removed. Recompleted to Tubb on 8/01/83. Acidized and frac'd perfs 5844 to 6058'. IP'd pumping 30 BD, 28 BLW and 242 MCF per day.

96 holes.

RDG-5/17/94

RDG/WORTH10/AUTO

1			
Submit 3 Copies to Appropriate District Office	State of New M Energy, Minerals and Natural		Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATI		WELL API NO.
	P.O. Box 2		30-025-10219
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	\$7304-2088	5. Indicate Type of Lease STATE FEE XX
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
	ICES AND REPORTS ON WE		
	OPOSALS TO DRILL OR TO DEEPE RVOIR. USE "APPLICATION FOR P >-101) FOR SUCH PROPOSALS.)	N OR PLUG BACK TO A ERMIT	7. Lease Name or Unit Agreement Name
1. Type of Weil: OIL WELL X WELL] OTHER		Lou Worthan
2. Name of Operator Marathon Oil Com	nany		8. Well No. 10
3. Address of Operator	pany		9. Pool name or Wildcat
PO Box 2409	Hobbs, NM 88240		Drinkard: Tubb/Drinkard
4. Well Location	-		
Unit Letter :58	5 Feet From The North	Line and66(Feet From The West Line
Section 11	Township 22-S F		NMPM Lea County
	10. Elevation (Show whethe GR 3370'	r DF, RKB, RT, GR, etc.)	
11. Check	Appropriate Box to Indicate	Nature of Notice, R	eport. or Other Data
NOTICE OF IN			SEQUENT REPORT OF
		REMEDIAL WORK	
	CHANGE PLANS		
PULL OR ALTER CASING		CASING TEST AND CE	· _
OTHER: Downhole Comming	X	OTHER:	
work) SEE RULE 1103.	lions (Clearty state all pertinent delaus, a	на діче регіснені аанез, інсіца	ling estimated date of starting any proposed
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I hereby certify that the information above is true	and complete to the best of my knowledge and	belief.	
SIGNATURE Fich Scole	\mathbb{Q}_{λ}	Petroleum En	gineer 5/19/94
Rick D.			(505) TELEPHONE NO. 393-7106
(This space for State Use)			
APPROVED BY	TÎL	E	DATE
CONDITIONS OF AFFROVAL, IF ANY:		, K	

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, Minerala & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-10) 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

				Operator Na	me and Address.					² 00	RID Number
		1 Compa	ny							140	
	x 2409				• •					-	VPI Number 5–10210
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²³ I hereby certify of my knowledge		iorination give	a above is t	rue and comp	lete to the best	OI	LC	ONSERVA	TION	DIVIS	ION
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Printed name:	Rick	D. Gad	dis	<u> </u>	Ті	tle:		<u> </u>			
Title: Pe		m Engin			A	pproval Date:		Т	Expiratio	n Date:	
Date: May	19, 1	994	Phone: (505) 393-7	II	anditions of Appr ttached 🛛	oval :				

OFFSET OPERATORS

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

Exxon Company USA P. O. Box 1600 Midland, TX 79702-1600 Attn: Land Department

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

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

American Exploration Company 1331 Lamar, Ste 900 Houston, TX 77010-3086

Mobil Exploration & Producing U.S. Inc. P. O. Box 633 Midland, TX 79702-0633 Attn: Larry Coppedge

Shell Oil Company P. O. Box 2463 Houston, TX 77252-2463 Attn: Land Department Shell Western E&P P. O. Box 576 Houston, TX 77001-0576 Attn: Land Department

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

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

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

Texaco Exploration & Production P. O. Box 3109 Midland, TX 79702-3109 Attn: Land Department



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

May 19, 1994

Offset Operators Lou Worthan Well No. 10 (mailing list attached)

> RE: REQUEST FOR EXCEPTION TO RULE 303-A DOWNHOLE COMMINGLING MARATHON OIL COMPANY LOU WORTHAN WELL NO. 10 UNIT D, 585' FNL & 660' FWL SECTION 11, T-22-S, R-37-E TUBB AND DRINKARD 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/9457/kc Attachments

Agreed and accepted this	day of	,
1994 by		as representative of
		•

A subsidiary of USX Corporation

OFFSET OPERATORS

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

Exxon Company USA P. O. Box 1600 Midland, TX 79702-1600 Attn: Land Department (14.5.# G-OCH 854390

Oxy USA Inc. P. O. Box 50250 Midland, TX 79705-0250 Attn: Land Department Attn: 2-004700 8 54285

John H. Hendrix 223 West Wall, Suite 525 Midland, TX 79701 Mul # 2004 854 286

American Exploration Company 1331 Lamar, Ste 900 Houston, TX 77010-3086 Cul # 2004 854587

Mobil Exploration & Producing U.S. Inc. P. O. Box 633 Midland, TX 79702-0633 Attn: Larry Coppedge $\alpha_1 \pm 2004$ 854288

Shell Oil Company P. O. Box 2463 Houston, TX 77252-2463 Attn: Land Department ... (c. # 200 455 854364 Shell Western E&P P. O. Box 576 Houston, TX 77001-0576 Attn: Land Department Cut 4 2004854565

Southwest Royalties, Inc. P. O. Drawer 11390 Midland, TX 79702-1390 Attn: Jon M. Tate (Luk # 2004854366

Chevron USA Inc. P. O. Box 1150 Midland, TX 79702-1150 Attn: Land Department Cui # 2004/854/267

Amerada Hess Corporation 1201 Louisiana, Ste 700 Houston, TX 77002 Attn: Randy Pharr (1.4.#2004854268

Texaco Exploration & Production P. O. Box 3109 Midland, TX 79702-3109 Attn: Land Department Und # 2004 854269

STATE OF NEW MEXICO ONSER ENERGY IMINERALS AND NATURAL RESOURCES DEPARTMENT RECEIVED '94 JUN 2.3 RM 8 50 BRUCE KING GOVERNOR	POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed: MC DHC NSL NSL NSP SWD WFX PMX	
Gentlemen:	
I have examined the application for the: $Marathon Dil Co. Low Worthan \pm 10-D$ Operator Lease & Well No. Unit S-T-R and my recommendations are as follows:	<u>11-22</u> 5-37E
and my recommendations are as follows: water Too much for a kine inter approve	P

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Yours very truly, Jerry Sexton Supervisor, District 1

/ed