C



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 () Northwest Operations

Production Superintendent

RDG:SPG/9465/kc

Attachments

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
 Commingle 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) <u>Estimated</u> 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:

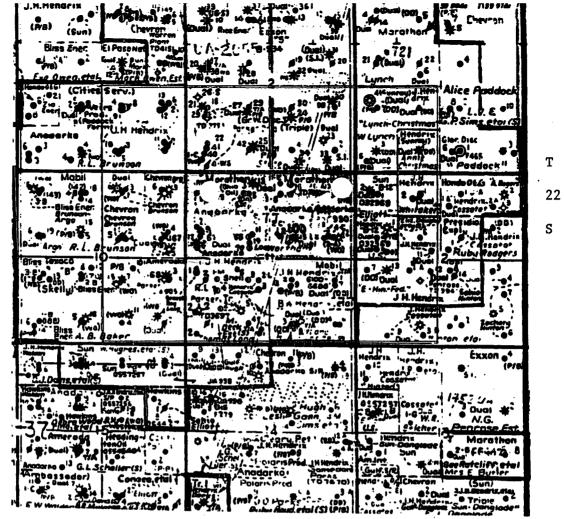
<u>FORMATION</u>	OIL	GAS	WATER
	(BPD)	(MCFD)	(BPD)
Tubb	2.5	191	0
Drinkard*	0.0	40	0
Granite Wash*	3.1	50	<u>16</u>
TOTAL	5.6	281	_16

^{*} Estimated due to shut-in status.

Allocated Percentages should be:

<u>FORMATION</u>	OIL	GAS	WATER
	(%)	(%)	_(%)_
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.



R 37 E

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 Brazza 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

AMENDED REPORT

Fee Lease - 3 Copies

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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, 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 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 10, 1994 Instructions on back

OIL CONSERVATION DIVISION Sub PO Box 2088

Submit to Appropriate District Office State Lease - 4 Copies

CHINAL NOS 381 XOHO TROTAL CECUMENA Santa Fe, NM 87504-2088

PO Box 2088, Santa Fe, NM 87504-2088 TARMUDOS SENT ED ROT BIAT TA AMENDED REPORT tionagin, alius erieriakka erit ekka tegentila beksabbed och WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code API Number trained bargering hor sing Pool Name 好为海森 動門 共計 Granite Wash 30-025-25255 * Tour col | 18 A SHOP 59 17 35 E A 500 Property Code ⁵ Property Name ा : 006488 अल्लाहर र प्रत्य अवश्रात अध्यत कृत्यास्त्रात्वर Well Number 14 14 Lou Worthan Ma OGRID No. *Elevation in the state of the Operator Name 14021 William 3350' Marathon Oil Company ार वर्ष अस्तिकारियांचे राज्यांचे व्यवस्था वर्षात्रकी स्थापन प्रकार वर्षात्रकी । 10 Surface Location with the second and set enter tour and UL or lot no. Section Township Range Lot Idn Feet from the Feet from the East/West line , 520 North 330 **22**S East 37E Lea 11 Bottom Hole Location If Different From Surface Section UL or lot no. Township Range Lot Ida Feet from the East/West line County 8 or the The movement resident sett 13 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 5491/03 16203 cion corsolast w NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED **SOPERATOR CERTIFICATION** hereof early that the information contained herein is true and complete to the best of my incovinge and belief 3301 with him A lightest of a light dollar Rick Dr. Gaddis of and ste noo pidle Printed Name O'Permo leum Engineer u gettelle ab libe fi n as natedornos vi Title

June 2, 1994 Date to a series and read order it ed alter chipter branch p 18SURVEYOR CERTIFICATION was plotted from field notes of actual surveye made by me or under my supervision, and that the same is true and correct to the best of my belief.
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Submit 2 copies to Appropriate P.O. Box 1980, Hobbs, NM 88240 DISTRICT DISTRICT

P.O. Drawer DD, Artesia, NM 88210

DISTRICT

1000 Rio Brazos Rd., Aztec, NM 87410

Energy, Minerals and Natural Resources Department State of New Mexico

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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order that well can be assigned increased allowables when authorized by the Division. 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

Specific gravity base will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

complete to the best of my knowledge and belief. Signature Date Printed name and title Rick D. Gaddis, June 2, 1994 Petroleum Engineer (505) 393-7106 Telephone No.

District Office. Submit 2 copies to Appropriate

P.O. Box 1980, Hobbs, NM 88240 P.O. Drawer DD, Artesia, NM 88210 DISTRICT DISTRICT

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT

Energy, Minerals and Natural Resources Department State of New Mexico

OIL CONSERVATION DIVISION

Revised 1/1/89

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

GAS - OIL RATIO TEST

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	Lou Worthan * Zone is below CIBP, Estimated rates for information only.	LEASE NAME	PO Box 2409	Marathon Oil Company	
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Instructions:

order that well can be assigned increased allowables when authorized by the Division. 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

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Report casing pressure in lieu of tubing pressure for any well producing through casing..

(See Rule 301, Rule 1116 & appropriate pool rules.)

Signature complete to the best of my knowledge and belief. Printed name and title I hereby certify that the above information is true and June 2, 1994 Rick D. Gaddis, Petroleum Engineer (505) 393-7106 Telephone No.

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

P.O. Drawer DD, Artesia, NM 88210

DISTRICT

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

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Instructions:

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Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

Signature

Rick D. Gaddis, Petroleum Engineer

Printed name and title

June 2, 1994 (505) 393-7106

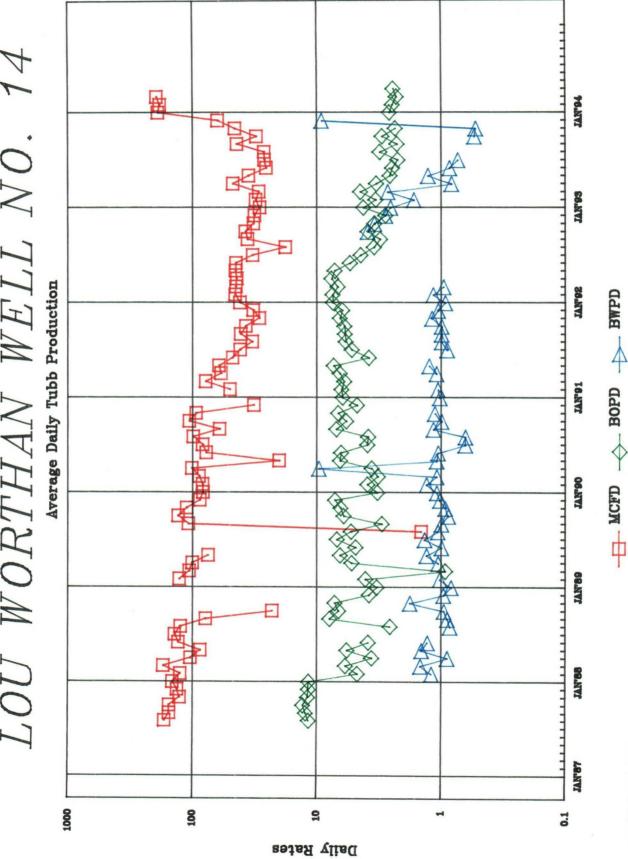
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Telephone No.

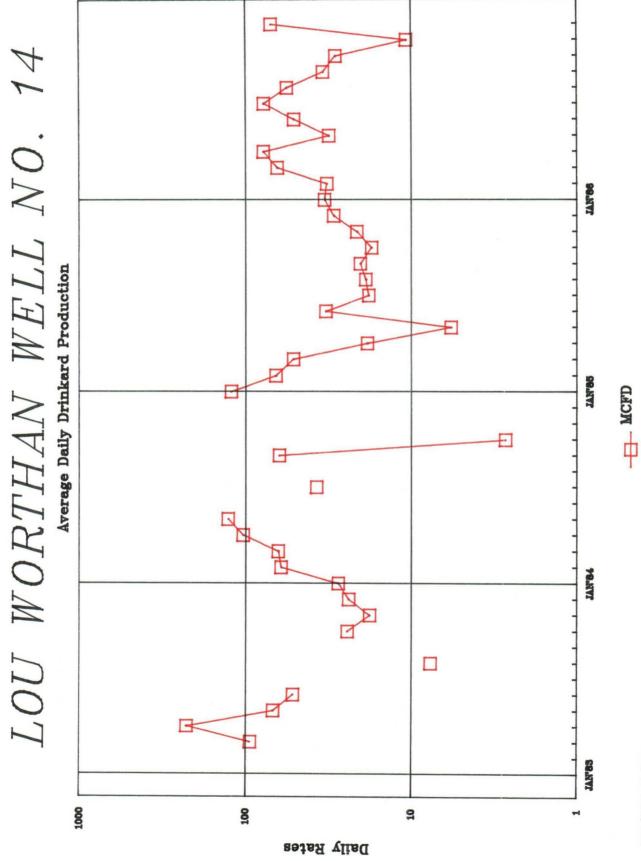
I hereby certify that the above information is true and

complete to the best of my knowledge and belief.

LOU WORTHAN WELL NO. 14

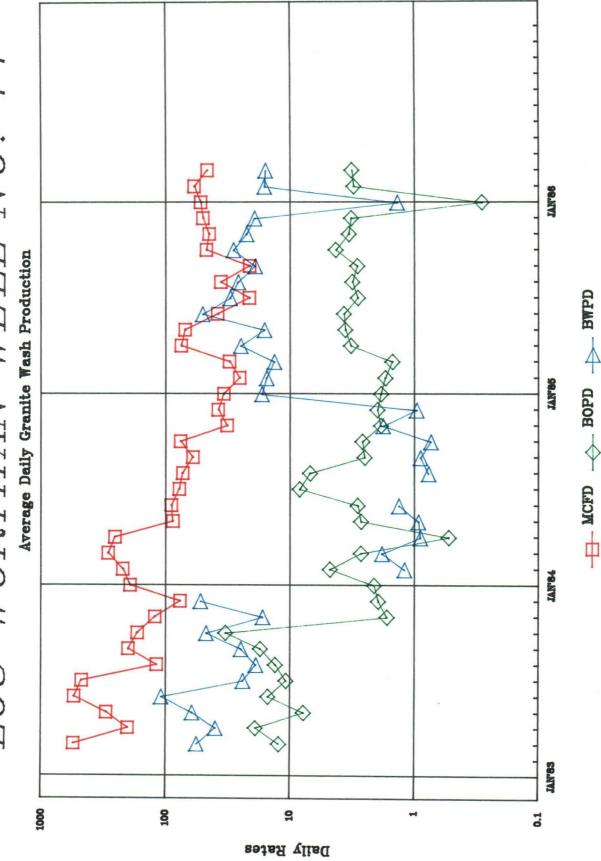


RDG/PWORTH14/002



RDG/PWOR14D/002

LOU WORTHAN WELL NO. 14 Average Daily Granite Wash Production



RDG/PWOR14G/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

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

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

American Exploration Co. 1331 Lamar, Suite 900 Houston, TX 77010-3086

Mobile Expl. & Prod. US Inc. PO Box 633
Midland, TX 79702-0633
Attn: Larry Coppedge

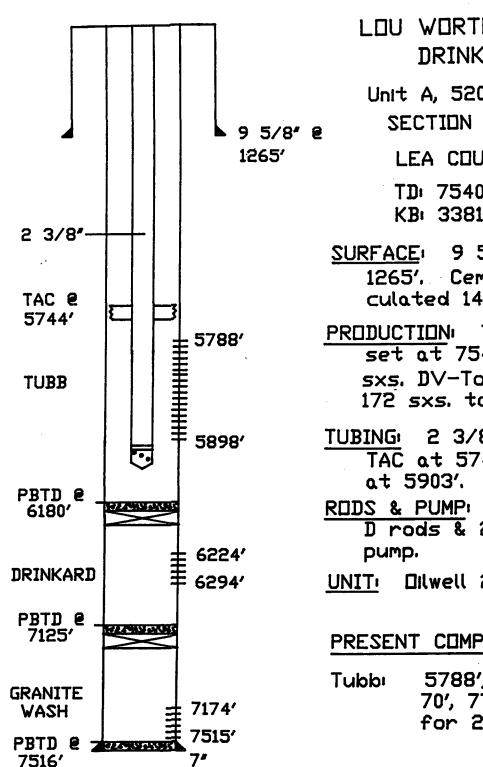
Shell Oil Company PO Box 2463 Houston, TX 77252-2463 Attn: Land Department Shell Western E&P PO Box 576 Houston, TX 77001-0576 Attn: Land Department

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

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

Amerada Hess Corporation 1201 Louisianna, Suite 700 Houston, TX 77002 Attn: Randy Pharr

Texaco Expl. & Prod. PO Box 3109 Midland, TX 79702-3109 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' PBTD: 7516' KB: 3381' GL: 3370'

SURFACE: 9 5/8", 32.3#/ft, H-40 set 1265'. Cemented with 650 sxs. Circulated 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

RDDS & PUMP: 7/8'' & $3/4'' \times 25'$ Grade D rods & 2" x 1 1/4" x 16' RHBC

UNIT: Dilwell 228 w/ AJAX engine.

PRESENT COMPLETION

5788', 5800', 34', 46', 57', 66', 70', 77', 94' & 5898', 2 JSPF for 20 holes.

Completed in May, 1976 as a Granite Wash oilwell. IP'd at top HISTORY: allowable from perfs 7289-7515'. Dualed 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 Tubb on 7/25/87. Acidized and frac'd perfs 5788 to 5898'. IP'd pumping 14 BO and 628 MCF per day.

TD: 7540'



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,

Och Del for S.P.G. 4/9/94

S.P. Guidry Northwest Operations Production Superintendent

RDG:SPG/9468/kc Attachments

Agreed and accepted this	day of _	
1994 by		as representative of
	(j.)	•

State of New Mexico

Submit 3 Copies to Appropriate District Office	Energy, Minerals and Natural R	esources Department	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 200	88	WELL API NO. 30-025-25255
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease STATE FEE XX
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
SUNDRY NOTI	CES AND REPORTS ON WEI		
DIFFERENT RESER	IVOIR. USE "APPLICATION FOR PE 101) FOR SUCH PROPOSALS.)	RMIT"	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL X WELL	OTHER		Lou Worthan
2. Name of Operator Marathon Oil Company			8. Well No. 14
3. Address of Operator PO Box 2409 Hobbs,	NM 88240		9. Pool name or Wildcat Drinkard: Tubb/Drinkard/GW
4. Well Location Unit Letter A : 52	O Feet From The North	Line and330	Feet From The <u>East</u> Line
Section 11	Township 33-S Ra		NMPM Lea County
	GR 3350'		
NOTICE OF INT	Appropriate Box to Indicate I ENTION TO:		eport, or Other Data 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 Downhole Comming		CASING TEST AND CE	MENT JOB
Sinch		OTHER:	
 Describe Proposed or Completed Operati work) SEE RULE 1103. 	ons (Clearly state all pertinent details, an	d give pertinent dates, includ	ling estimated date of starting any proposed
Marathon Oil Company	respectfully proposes t	the downhole com	mingling 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 NMOCD.

I hereby certify that the information above is true and complete to the best of my	knowledge and belief.	
SIGNATURE The D. The Designature	Petroleum Engine	eer June 2, 1994
TYPEORPRINT NAME Rick D. Gaddis		ТЕЛЕРНОМЕ NO. 393-7106
(This space for State Use)		
•		
APPROVED BY	TILE	DATE

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

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

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State Lease - 6 Copies

Fee Lease - 5 Copies

									<u></u>	_ AMER	IDED REPORT
APPLICA	TION I	FOR PE			LL, RE-EN	TER, DEE	PEN	I, PLUGB	ACK,		DD A ZONE
		1 Compa		•	-						4021
	x 2409	000/0	,		•					•	API Number
HODDS	, NM	88240								30 - 0	25-25255
1 Prope 006488	rty Code 8	L	ou Wor	than	, b	roperty Name					• Well No. 14
					⁷ Surface	Location					
UL or lot no.	Section 11	Township 22S	Range 37E	Lot Idn	Feet from the 520	North/South i	ine	Feet from the 330		V est line IST	County Lea
		8 Pr	oposed	Bottom	Hole Locat	ion If Diffe	erent	From Sur	face		_ !
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South li		Feet from the		Vest line	County
	<u></u>	' Propos	ed Pool 1	<u> </u>				" Propos		2	
Tubb						Drinka	ard/	Granite W	ash		·
11 Work T	ype Code		¹ Well Type	: Code	13 Cable	/Rotary		14 Lease Type Co	de	15 Grou	nd Level Elevation
E	-		0		N/A			P		33	350'
¹• Mu N	ltiple	l'	⁷ Proposed 7540		"Fort	1		" Contractor N/A			Spud Date Approval
							Dan			00011	Approvat
				Propose	20 Casing a	nd Cement	PIU	gram			
Hole Siz	tæ	Casin	g Size		g weight/foot	Setting De			Cement	T	Estimated TOC
Hole Siz									Cement		Estimated TOC
									Cement		Estimated TOC
									Cement		Estimated TOC
									Cement		Estimated TOC
See C-105	on fi	ile	eg Size	Casin	ng weight/foot	Setting De	pth	Sacks of			
See C-105	on fi	ile	is application	Casin	ng weight/foot	Setting De	pth	Sacks of			Estimeted TOC
Describe the p	on fi	ile ogram. If thi	is application	Casin on is to DEE	g weight/foot PEN or PLUG BA	Setting De	on the	Sacks of	ve zone a	and propose	ed new productive
Describe the proper Describe (on fine proposed prop	ogram. If the prevention p	is application of the program, if	Casin Dan is to DEE any. Use ad	pen or PLUG BA	CK give the data	on the	present producti	ve 20ne :	and propose	ed new productive
Describe the proper Describe of Marathodownhol	on fine blowout on Oil Le comm	ogram. If the prevention processingle	is application of the Tules of the Tules	Casin Dan is to DEE any. Use ad Doses to bb, Dri	PEN or PLUG BA ditional sheets if a drill out	CK give the data accessary. two CIBI Granite	on the	present producti t 7125' a h formati	ve zone a	.80' to	ed new productive
Describe the product	on financial communication or	ogram. If this prevention processing the Tunningle in the Tu	is application of the Tulubb is	Casin Dan is to DEE any. Use ad oses to bb, Dri 3 BOPD	PEN or PLUG BA ditional sheets if a drill out nkard, and	CK give the data accessary. two CIBI Granite	on the	present producti t 7125' a h formati	ve zone a	.80' to	ed new productive
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