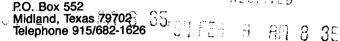
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January 19, 1994

Mr. William LeMay, Director Energy, Minerals, & Natural Resources Dept. New Mexico Oil Conservation Dept. P O Box 2088 Santa Fe, New Mexico 87504-2088

Attn: David R. Catanach

RE: Request for Exception to Rule 303-A Downhole Commingling W. S. Marshall "B" #10 Unit M, 634' FSL & 632' FWL Sec. 27, T-21-S, R-37-E Blinebry Oil & Gas and Wantz Abo Drinkard Field Lea County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company is requesting administrative approval for an exception to Rule 303-A, which would permit the downhole commingling of production in the referenced well from the Blinebry Oil & Gas and the Wantz Abo pools in Lea County, New Mexico.

Currently, the well is dually completed with both zones being produced up tubing strings. By removing the two tubing strings and commingling, the two zones the can be rod pumped, reducing back pressure on the formation and increasing productivity.

Listed below is pertinent supporting data.

- 1. A lease plat showing location of well is attached.
- 2. Copies of recently conducted C-116s for both zones attached.
- 3. Decline curves for both zones attached.
- 4. Form C-102 for the Blinebry and Wantz Abo are attached.
- 5. A list of off set operators is attached.
- Estimated shut in bottom hole pressures are 980 psi from for the Blinebry, and 1150 psi for the Wantz Abo.
  \*During pumping operations producing BHP expected to be ± 60 psi for each zone.
- 7. Working and royalty ownership in all formations is the same.

Page -2-

8. The quality of the produced fluids is nearly identical and downhole commingling will not reduce the commercial value. Properties are listed below.

Zone	<u>Oil Gravity</u>	Quality
Zone Blinebry 5.6K	38° API	Sour
Wantz Abo 7-8K-	37° API	Sour

9. The following allocation percentages are suggested based upon the ratio of anticipated production from each zone.

		Anticipated		Anticipated
Zone	<u>0il %</u>	Prod BOPD	<u>Gas %</u>	Prod MCFPD
Blinebry	16.7	8	49.7	148
Wantz Abo	<u>88.3</u>	<u>40</u>	<u>50.3</u>	<u>150</u>
	100	48	100	298

Production estimates are based on last C-116 test for Blinebry and reaction of the Wantz Abo in the W. S. Marshall "B" #9 after similar work.

If additional information is necessary, please contact me at 915/682-1626.

Respectfully,

Thomas mprice

Thomas M. Price Advanced Engineering Technician

xc: Jerry Sexton, NMOCD Hobbs
tmp\jo\94004

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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**

Cast volumes must be repaired in Specific enswire have will be 0.60.	which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent toterance in order that well can be assigned increased allowables when authorized by the Division.	During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in	Instructions:	-	W.S. Marshall "B"	LEASE NAME		Address P.O. Box 552, Midland, Texas, 79702	Operator Marathon Oll Company	
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Specific gravity base will be 0.60.

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

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

Date 1-19-94

915-687-8324

Telephone No.

Energy, Minerals and Natural Resources Department	State of New Mexico

### **Form C-116** Revised 1/1/89

# **OIL CONSERVATION DIVISION**

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

P.O. Drawer DD, Artesia, NM 88210

DISTRICT

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 1980, Hobbs, NM 88240

**District** Office.

DISTRICT

Submit 2 copies to Appropriate

### OIL RATIO TRAT

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Instructions:		W.S. Marshall "B"	LEASE NAME		Address P.O. Box 552, Midland, Texas, 79702	Operator Marathon Oil Company	
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.		189000	CU.FI/BBL	GAS-OF			

(See Rule 301, Rule 1116 & appropriate pool rules.) Report casing pressure in lies of tabing pressure for any well producing through casing.

Specific gravity base will be 0.60.

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

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in

1-19-94 Printed name and title

915-687-8324

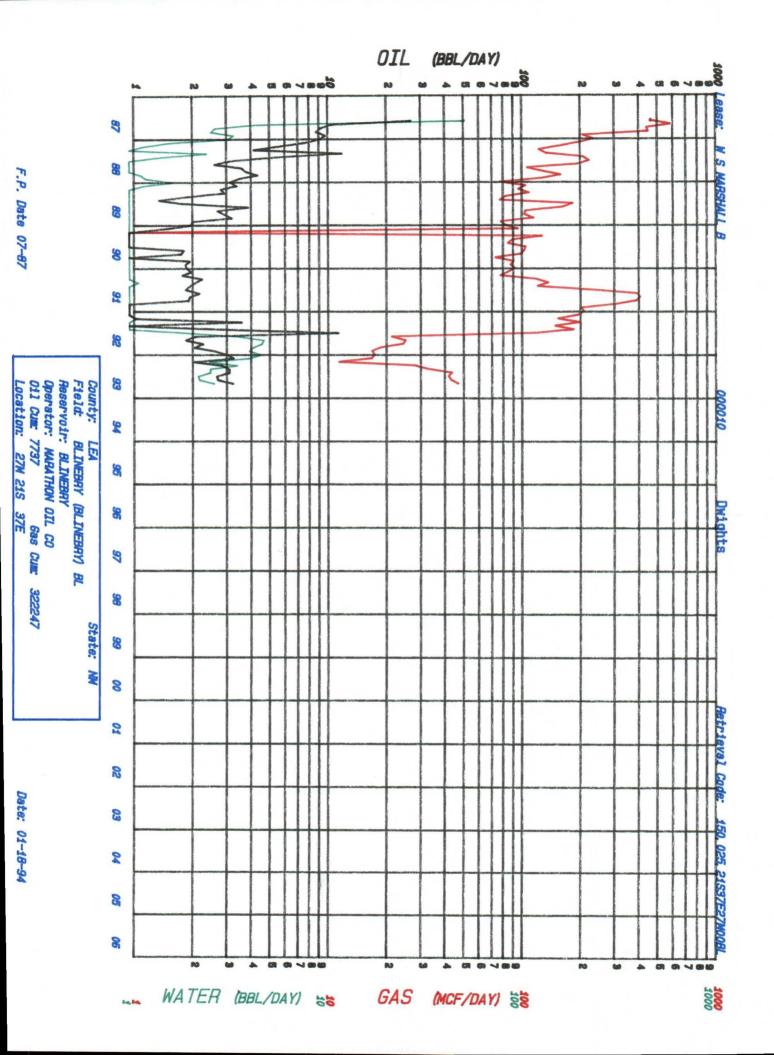
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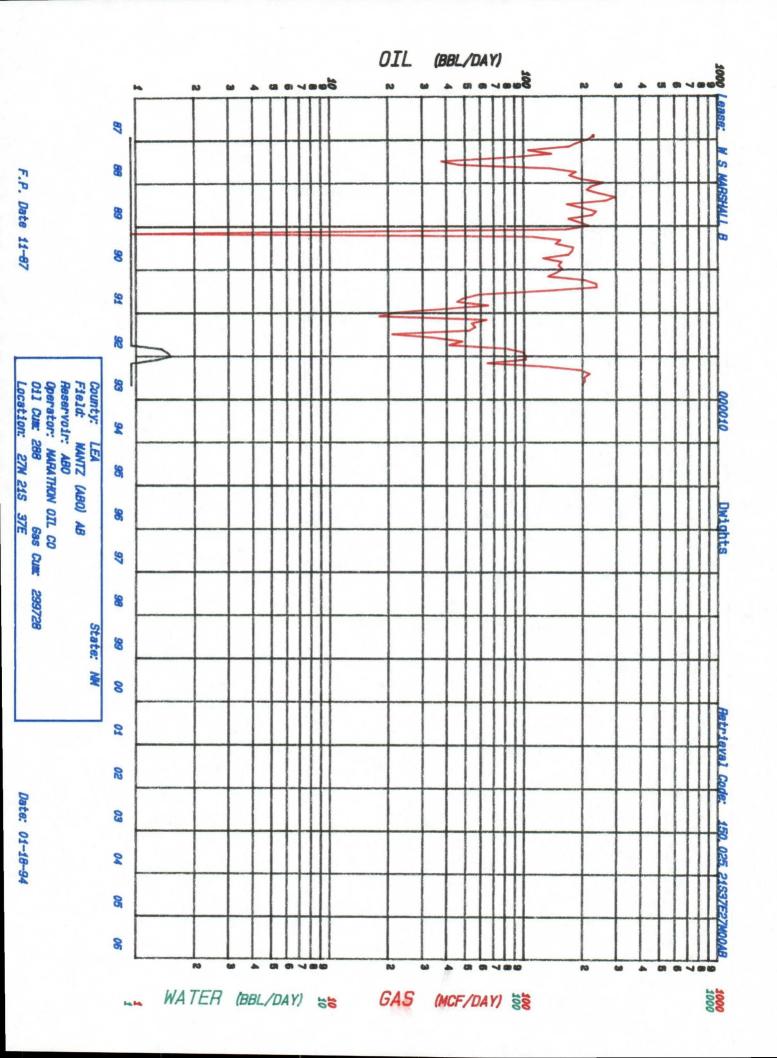
**Thomas M. Price** 

which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in Gas volumes must be reported in MCF measured at a pressure base of 15.025 pcia and a temperature of 60° F. Signature

Samas

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### N' XICO OIL CONSERVATION COMMISS' WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

		Ail distance	es must be from	the atter boundaries	of the Section.		
	HON OIL C	co.	L	W.S. MAR	SHALL "B	<b>H</b> .	Well No.
	Section	Township		Range	County		
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a an that the

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

### State of New Mexico Energy, Minerais and Natural Resources Department

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### **OIL CONSERVATION DIVISION** P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

x	<u> </u>	Lease	Well No.
Maratho	n Oil Company	W. S. Marsha	
stier Soci		Range	County
M	<u>27 21-S</u>	37-Е	NMPM Lea
Footage Location o		( ) )	feet from the West line 40
<u>634</u> feet i	rom the South line and Producing Formation	d 632	feet from the West line 40
	Blinebry	Blinebry	40 Acres
3416	reage dedicated to the subject well by colored		
	-		
2. If more than	ne lense is dedicated to the well, outline each	and identify the ownership thereof (bo	th as to working interest and royalty).
3. If more than	ne lease of different ownership is dedicated to	the well, have the interest of all owned	ers been consolidated by communitization.
	re-pooling, etc.?		
Yes		type of consolidation	
this form if pece	list the owners and tract descriptions which h	ive actually been consolidated. (Use	
No allowable w	il be assigned to the weil until all interests hav		uon, unitization, forced-pooling, or otherwise)
or until a non-st	ndard unit, eliminating such interest, has been	approved by the Division	· · · · · · · · · · · · · · · · · · ·
			OPERATOR CERTIFICATION
	! !		I hereby certify that the inform
		1	contained herein in true and complete t
			best of my knowledge and belief.
		l	Signature
		ļ	Thomas monco
			Printed Name
			Thomas M. Price
	- <u>-</u>		Position
		l	Adv. Engin. Tech.
			Сотрану
		1	Marathon Oil Compan
			Date
			01-19-94
			SURVEYOR CERTIFICATION
			I hereby certify that the well location a
			on this plat was plotted from field no actual surveys made by me or unde
			supervison, and that the same is true
2	1		correct to the best of my knowledge
			belief.
	1		Date Surveyed
	······································		·
			Signature & Seal of Professional Surveyor
632'		1	1 1
632'			
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632'			
7			Certificate No.

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### INTRACOMPANY CORRESPONDENCE

то	T. M. Price	DATE	January 24, 1994 John ULR Wayne L. Ransbottom
OFFICE	Midland, Texas	FROM	Wayne L. Ransbottom
SUBJECT		OFFICE	Midland, Texas

Re: Offset Operators Our Lease NM-378 - W. S. Marshall SW/4 Section 27, T-21-S, R-37-E, N.M.P.M., Lea County, New Mexico

Pursuant to your request, attached is a listing of the offset operators to Marathon's above-referenced lease:

### T-21-S, R-37-E, N.M.P.M.

Section 27:	N/2	Conoco Inc. P. O. Box 1959 Midland, TX 79702-1959
Section 27:	SE/4	Exxon Corporation P. O. Box 1600 Midland, TX 79702-1600
Section 34:	NE/4	Exxon Corporation
Section 34:	NW/4	Mobil E&P U.S. Inc. P. O. Box 633 Midland, TX 79702-0633
Section 33:	NE/4	Mobil E&P U.S. Inc.
		Chevron USA Inc. P. O. Box 1150 Midland, TX 79702-1150

Section 28: E/2

J. F. Rusnak F. busnel Extension 8464

JFR; mmc'

Chevron USA Inc.

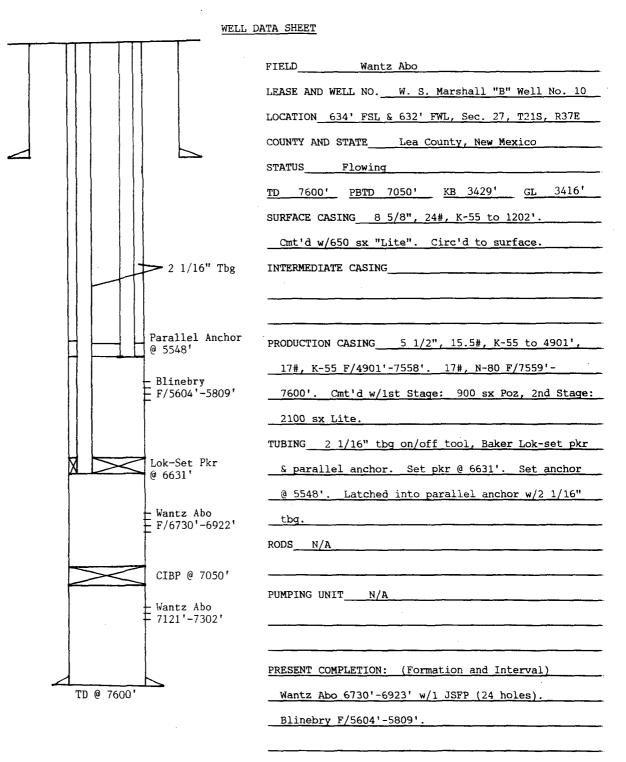
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Submit 3 Copies to Appropriate District Office							
DISTRICT I P.O. Box 1980, Hobbe, NM 88240	OIL CONSERVATIO P.O. Box 208	8	WELL API NO. 30-025-29797				
DISTRICT II P.O. Drawer DD, Artesia, NM \$8210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lases STATE FEE X				
DISTRICT III 1000 Rio Brazos Rd., Aztoc, NM \$7410			6. State Oil & Gas Loase No.				
SUNDRY NOT ( DO NOT USE THIS FORM FOR PRO DIFFERENT RESEI (FORM C	7. Lasse Name of Unit Agreement Name W.S. MARSHALL "B" N						
OL CAS WEL X WEL 2. Name of Operator Marathon Oli Company	0/TBR.		8. Well No.				
3. Address of Operator			9. Pool same or Wildow				
P.O. Box 552 Midland, Ta	c. 79702		DRINKARD(BLINEBRY/WANTZ ABO)				
4. Well Location		<u> </u>					
Unit Letter <u>M</u> :6	34 Feet From The SOUTH	Line and	632 Fest From The WEST Line				
Section 27	Township 21-S Ra	age 37~E	NMPM LEA County				
	10. Elevation (Show whether GL:3416 KB:3432	-					
11. Check	Appropriate Box to Indicate 1	Nature of Notice, R	eport, or Other Data				
NOTICE OF IN	FENTION TO:	SUB	SEQUENT REPORT OF:				
	PLUG AND ABANDON	REMEDIAL WORK					
	CHANGE PLANS		3 OPNS. DPLUG AND ABANDONMENT				
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB				
OTHER: ADD PERFS AND COMMIN	GLE	OTHER:	C				

12. Describe Proposed or Completed Operations (Clearly state all persinent details, and give persinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Marathon Oil Co. is proposes to add perfs to the existing Wantz Abo completion is this well and downhole commingle with the Blinebry as per the procedure summarized below.

MIRU PU. Install BOP.POOH with Tbg and Pkrs. Add Wantz Abo perfs 6972'-7035'selectivity. Stimulate the Wantz Abo with 4000 gallons 15% HCL. Sand frac the Wantz Abo with 380,000# sand. Swab and flow back the Wantz Abo. Stimulate Blinebry w/3000 gallons 15% HCL. Swab & flow back the Blinebry. Install production tbg, rods and pump, commingling the Wantz Abo and Blinebry. Turn well to test.

I hareby cartify that the information above is true and complete to the best	of my knowledge and belief.	
ADMATURE Thomas manice	m. Adv. Eng. Tech.	DATE 1-19-94
TYPEORPRINTNAME Thomas M. Price		тяшеноме но,915-687-8324
(This space for State Use)		
APTROVED BY	Mu	DATE



HISTORY	pudded well on	<u>3/5/87.</u> Co	mpleted in t	the Wantz Ab	o F/7121'-7	7302'. Ac	idized w/
2500 gals	of 15% NEFE.	Set plug.	Perf'd F/67:	30 <u>'-6922'</u> .	Acidized w	/2500 gals	s of 15%
NEFE. 11	- 820 MCFPD.	Set plug.	Perf'd Bline	ebry F/5604'	-5896'. Ad	idized_w/	3000 gals
15% HCl.	Frac'd Blineb	ry w/60,000	gals Purgel	w/118,000#	sand. Set	CIBP @ 70	050'. IP:
Wantz Abo	- 350 MCFPD o	n 28/64" cho	ke. Blineb	ry_F/103_BO	&_60 BW_in	24 hrs.	Allowable:
107 BOPD.	·						
PREPARED BY	St	ephen P. Rob	perts		DATE	12/19/88	
057-88/wds2							



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

February 2, 1994

Mobil E&P U. S. Inc. P O Box 633 Midland, Texas 79702-0633

RE: Downhole Commingle Application W. S. Marshall "B" No. 10 Unit M, 634' FSL & 632' FWL Sec. 27, Twp 21-S, Rng 37-E Blinebry and Wantz Abo Drinkard Field

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 and return one copy to Marathon Oil Company at the above address.

Sincerely, S.P. Andra 38 Turnico

S. P. Guidry Northwest Operations Production Superintendent

tmp\jo\94005

		و و به هر و مه کارو بند کا دو و د		
Agree	i and accepted	this	day of	, 1994
ьх			as representative of	•

Mid-Continent Region Production United States



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

February 2, 1994

Chevron USA, Inc. P O Box 1150 Midland, Texas 79702-1150

RE: Downhole Commingle Application W. S. Marshall "B" No. 10 Unit M, 634' FSL & 632' FWL Sec. 27, Twp 21-S, Rng 37-E Blinebry and Wantz Abo Drinkard Field

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 and return one copy to Marathon Oil Company at the above address.

Sincerely, S.P. Sunda Bo Trutico

S. P. Guidry Northwest Operations Production Superintendent

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



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

February 2, 1994

Exxon Corporation P O Box 1600 Midland, Texas 79702-1600

RE: Downhole Commingle Application W. S. Marshall "B" No. 10 Unit M, 634' FSL & 632' FWL Sec. 27, Twp 21-S, Rng 37-E Blinebry and Wantz Abo Drinkard Field

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Sincerely, SP Striken By Turprice

S. P. Guidry Northwest Operations Production Superintendent

tmp\jo\94005

Agr	eed and	accepted this	day of	, 1994
by .			as representative of	•



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

February 2, 1994

Conoco, Inc. P O Box 1959 Midland, Texas 79702-1954

RE: Downhole Commingle Application W. S. Marshall "B" No. 10 Unit M, 634' FSL & 632' FWL Sec. 27, Twp 21-S, Rng 37-E Blinebry and Wantz Abo Drinkard Field

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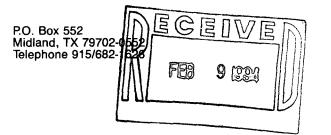
Sincerely, S.P. Fueday By Judger

S. P. Guidry Northwest Operations Production Superintendent

tmp/jo/94005

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Agreed and accepted this	day of	, 1994	
by	as representative of	<u> </u>	





February 2, 1994

. .

> Conoco, Inc. P O Box 1959 Midland, Texas 79702-1954

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Sincerely, S.P. Fueday By Turface

S. P. Guidry Northwest Operations Production Superintendent

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Attachment

Agreed and accepted this		Fibruary, 1994
by All (a. Fridd	as representative of	Conoco.
Holdos OU Temm	Leader	

### RECEIVED

FEB 24 1994

MARATHON OIL CO. MIDLAND OPERATIONS SUPT. MIDLAND, TEXAS

A subsidiary of USX Corporation

ENERGY, MINERALS AND NA	F NEW MEXICO TURAL RESOURCES DEPARTMENT RVATION DIVISION DISTRICT OFFICE 3-94 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161
OIL CONSERVATION DIVISION P. 0. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed: MC	shall B #10-M 27-21-37
Yours very truly, Yours very truly, Jerry Sexton Supervisor, District 1 /ed	

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