### AND DONGERVATION DIVISION RECEIVED



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

April 20, 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 Exception to Rule 303-A
Downhole Commingling
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
Wantz Abo, Drinkard Formations
Drinkard Field
Lea County, New Mexico

Dear Mr. Catanach:

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

Currently, the well is dually completed. By removing the dual completion equipment, the well can be rod pumped. This will reduce back pressure on the formation and increase productivity.

Pertinent supporting data is listed below:

- A lease plat showing the location of the well is attached.
- Copies of recently conducted C-116 tests for both zones are attached.
- 3. Decline curves for both zones are attached.
- 4. A listing of offset operations is attached.
- 5. Form C-102 for each formation is attached.

### I.ETTER

Request Exception to Rule 303-A

Page -2-

- 6. Bottom hole pressures from surveys run 3-14-91:
  Drinkard 551 psig Wantz Abo 509 psig
- 7. Ownership of the two pools to be commingled are in common and correlative rights will not be violated.
- 8. Marathon's has commingled the fluids at the surface without compatibility problems. Downhole commingling will not reduce the commercial value of the product.
- 9. Estimated production after installation of pumping equipment is displayed below. Gas rates are from form C-116. Liquid rates have been estimated from well modeling programs and recently acquired FL level information.

	OIL		Gas		Water	
<b>FORMATION</b>	<u>BPD</u>	<u>-8</u> _	<u>MCFPD</u>	<u>-8</u>	BPD	- %
Drinkard	2	64	77	22.1	1	33
Wantz Abo	_1_	<u>33</u>	<u>271</u>	<u>77.9</u>		<u>64</u>
TOTAL	3	100	348	100	3	100

By copy of this letter, we are notifying all offset operators of the proposed commingling.

If additional information is required, please contact me at 915/687-8324.

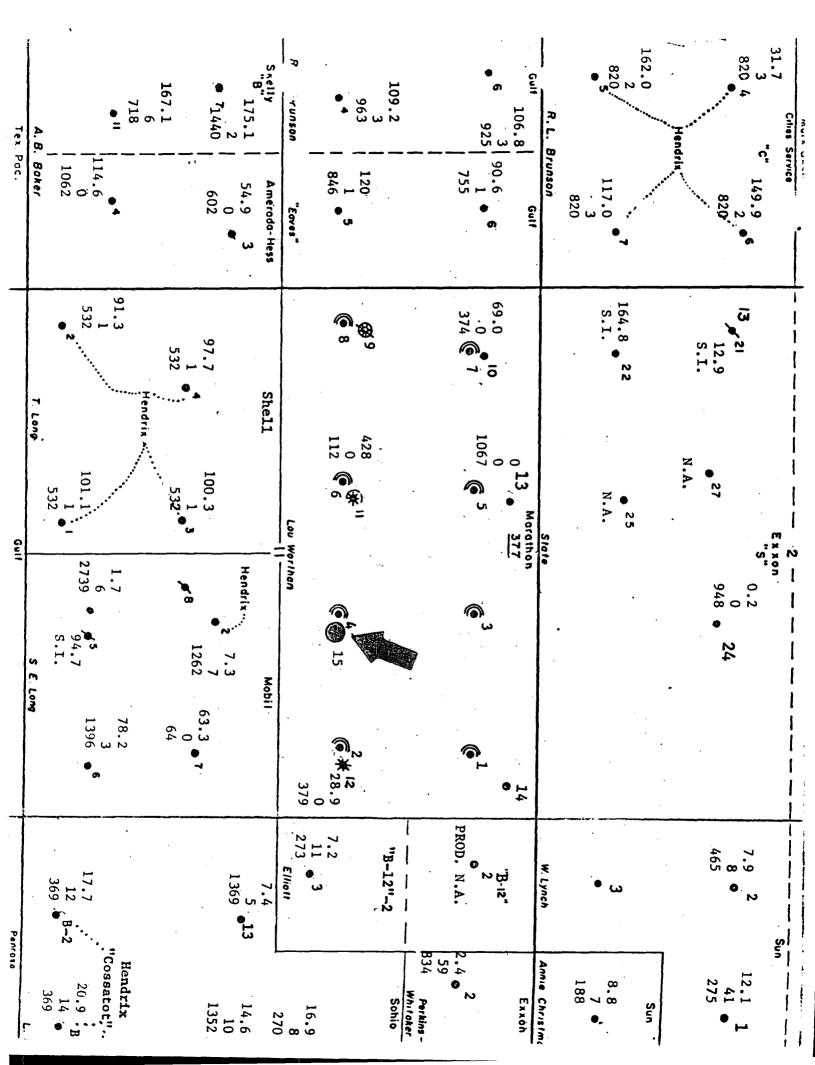
Sincerely,

Thomas M. Price

Advanced Engineering Technician

tmp\jo\94069

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Submit 2 copies to Appropriate
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

## 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

Coperator   Coperator   Company					-	1							-				
## DATE OF LEASE NAME   TOPE NAME	Operator	-				 ?							<u> </u>	. Ş			
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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

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.)

4-20-94	Signature THOMAS M. PRICE,	Thoma	I hereby certify complete to the be
915/682-1626	Signature THOMAS M. PRICE, ADV. ENGIN. TECH.	homas mi ince	I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Telephone No.

Submit 2 copies to Appropriate District Office. 1000 Rio Brazos Rd., Aziec, NM 87410 P.O. Drawer DD, Artesia, NM 88210 P.O. Box 1980, Hobbs, NM 88240 DISTRICT III DISTRICT II DISTRICT

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

Revised 1/1/89 Form C-116

# OIL CONSERVATION DIVISION

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

## **GAS-OIL RATIO TEST**

Operator					<u> </u>	Pod Pod						8	Auroo			
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Report cashing pressure in lies of tubing pressure for any well producing through easing

complete to the best of my knowledge and belief. I hereby certify that the above information is true and

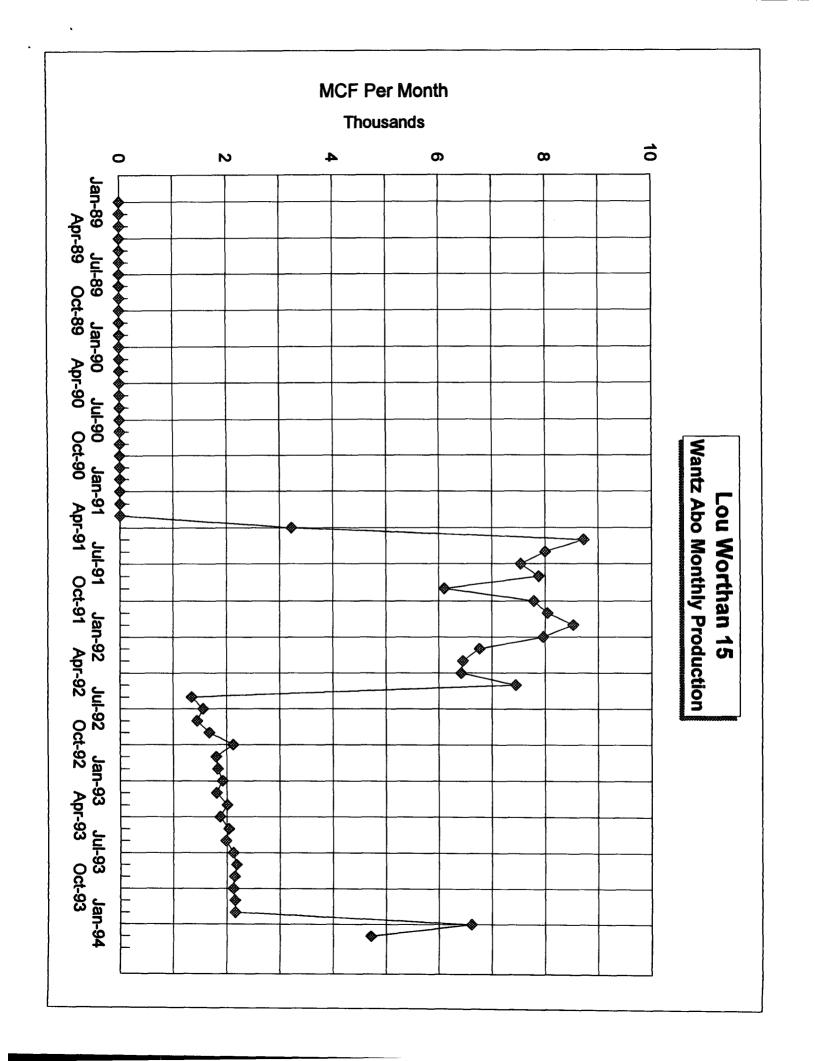
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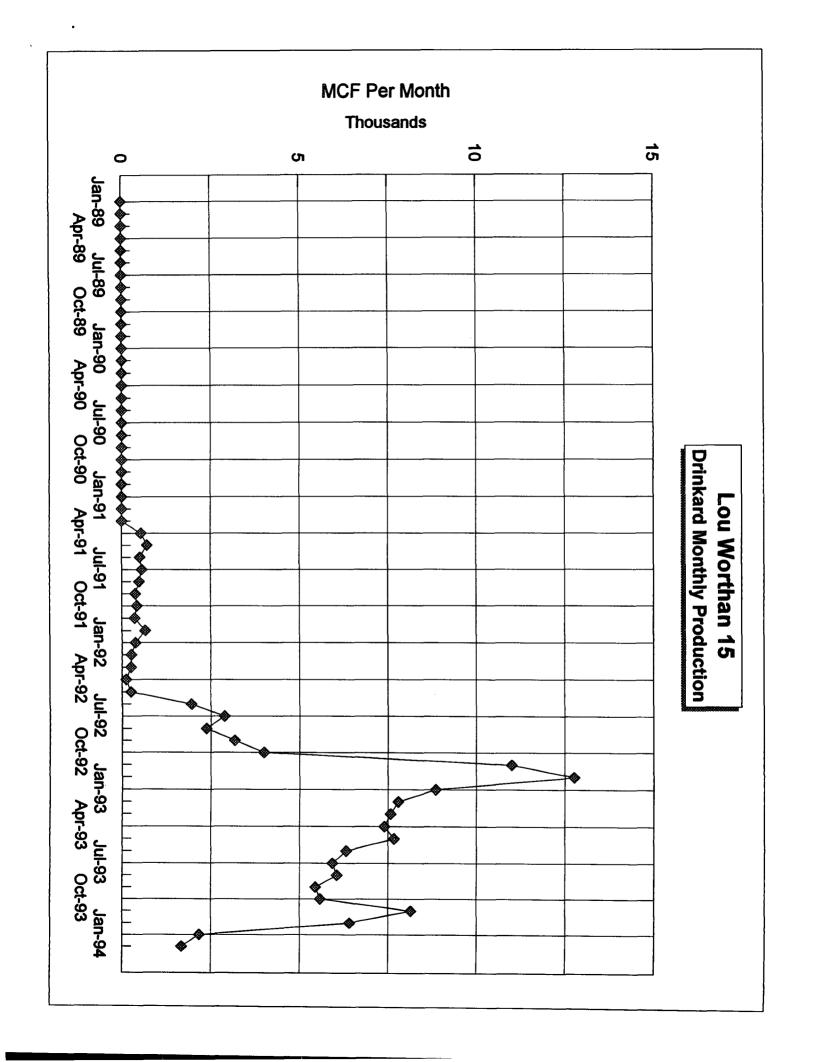
916/682-1626

NEERING TECH.

03-07-94

Telentrane No.





District & PO Box 1986, Hobbs, NM \$8241-1986 Diseries II PO Drawer DD, Artenia, NM 88211-9719 District III 1000 Rio Bramo Rd., Astec. NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

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

Revised February 10, 1994 instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

Form C-102

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Num	ber	<sup>1</sup> Pool Code		Post Name	<del> </del>	
30-025-253	04	62700	Wantz Abo			
• Property Code 006488	Wantz	•	Property Name		15	mber ·
OGRID No.		•	Operator Namo		* Elevati	**
014021	Marath	non Oil Compan	У		3345	GL

### 10 Surface Location

UL or lot so.	Section	Township	Rango	Lot Ida	Fost from the	North/South Lee	Fast from the	East West Las	County
G	11	225	37E	_	1980	North	1860	East	Lea

### 11 Bottom Hole Location If Different From Surface

UL or ict so.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East West Las	County	
G	11	225	37E		1980	North	1860	East	Lea	
1 Dedice . : Acr	me " Joint	or lafil "	Conseidatio	a Code 13 C	Order No.					
40	N	}								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	THE HOLL NO.	NDAGO ON		EEN APPROVED B	1 11201101011
16			1980'		17 OPERATOR CERTIFICATION  I hereby ceruly that the information contained herein is true and complete to the best of my installedge and belief
					Thomasmy neo
		# )	6	1860'	Thomas M. Price Thomas M. Price Adv. Engineering Tech. Date 4-20-94
	SECTION 11				18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was protest from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the base of my ballof.
					Date of Survey  Signamore and Scal of Professional Surveyer:
					Ceruficas Number

District I PO Box 1986, Hobbs, NM 88241-1986 District [] PO Drawer DD, Artesia, NM 88211-9719 District III 1000 Rio Brazes Rd., Aziec, NM 87419 District (V

PO Box 2008, Santa Fe. NM 87504-2008

### State of New Mexico Energy, Mineran & Natural Research Dep

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OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Fee Lease - 3 Copies

AMENDED REPORT

Form C-102

		V	VELL LO	CATIO	N AND	ACF	REAGE DEDI	CATION PL	_AT		
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UL or lot se.	Section	Townshi		Lot Ida	Feet from		North/South fine	Fost from the	East/Wes	ilee	County
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				1				Ceruficate Nue	ober		<del></del>

CONDITIONS OF AFFROVAL, IF ANY:

### State of New Mexico

Form C-100

to Appropriate District Office	Energy, Minerals and Natural Re	esources Department	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbe, NM 88240	OIL CONSERVATIO P.O. Box 208		WELL API NO. 30-025-25304
DISTRICT II	Santa Fe, New Mexico		
P.O. Drawer DD, Artesia, NM 88210 DISTRICT III			5. Indicate Type of Lease STATE FEE X
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
( DO NOT USE THIS FORM FOR PRODIFFERENT RESERVANCE)	CES AND REPORTS ON WEL POSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PEI -101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name LOU WORTHAN
1. Type of Well:	101,101,000,111,01,000,000,000,000	<u></u>	1
MET MET X	OTHER		
2. Name of Operator  Marathon Oil Company			8. Well No.
3. Address of Operator			9. Pool name or Wildoxt
P.O. Box 552 Midland, To	c. 79702		DRINKARD/WANTZ ABO
" · · · · · · · · · · · · · · · · · · ·	80 Feet From The NORTH	Line and	1860 Rest Prom The EAST Line
Section 11	Township 22-S Ra	mge 37-E	NMPM LEA County
	10. Elevation (Show whether GL: 3345 KB:3357		
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NOTICE OF INT	Appropriate Box to Indicate I	_	REPORT OF:
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PULL OR ALTER CASING	OFFITOE COMP	CASING TEST AND C	
OTHER: DOWNHOLE COMMINGLE	·	OTHER:	
	ticus (Clearly state all pertinent details, as		uding estimated date of starting any proposed
DOWNHOLE COMMINGLE THE PI	RODUCTION FROM THE DRINKAR PKR, KEEPING BOTTOM HOLI	RD AND WANTZ ABO. E PRESSURE LOWER	UIPMENT FROM THIS WELL AND  THE WELL BE PLACED ON A ROD  RED AND INCREASING PRUDUCTION. IT  ODUCTION.
•			
I hereby certify that the information above is tru	s and complete to the best of my knowledge and	belief.	
SIGNATURE Som as In	The s	ENG TECH	DATE 4-21-94
TYPEORPRINT NAME THOMAS M. Pri	ce	<del></del>	<b>ТЕГЕННОМЕ NO.915-687-8</b>
(This space for State Use)			
ARRACATED BY		12	

### 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



April 20, 1994

Exxon Company USA P O Box 1600 Midland Tx 79702-1600 Attn: Land Department

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
Wantz Abo, Drinkard Formations
Drinkard Field
Lea County, New Mexico

### Gentlemen:

Sincerely,

S. P. Guidry

Northwest Operations Production Superintendent

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 the original to the NMOCD in the attached addressed envelope. Also please make one copy and return it to Marathon in the self addressed stamped envelope.

tmp\jo\94005		
Attachment		
Agreed and aggented this	day of	100
Agreed and accepted this	day ofas representative of	, 199

Sp Judy By Tom Pucp



April 20, 1994

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

RE: Request Exception to Rule 303-A
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S. P. Guidry

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Production Superintendent

tmp\jo\94005

Attachment

Agreed and accepted this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 199.
by \_\_\_\_\_\_ as representative of \_\_\_\_\_\_.

S. Populary by Traffice

Northwest Operations



April 20, 1994

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

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Downhole Commingle
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S. P. Guidry
Northwest Operations
Production Superintendent

tmp\jo\94005

Sincerely,

Attachment

~		
Agreed and accepted thi	s day of	, 1994
by	as representative of	•



April 20, 1994

American Exploration Company 1331 Lamar, Suite 900 Houston Tx 77010-3086

RE: Request Exception to Rule 303-A
Downhole Commingle
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April 20, 1994

Mobil Exploration & Producing US, Inc. P O Box 633
Midland Tx 79702-0633
Attn: Larry Coppedge

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15

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April 20, 1994

Shell Oil Company P O Box 2463 Houston Tx 77252-2463 Attn: Land Department

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S. P. Guldry Northwest Operations Production Superintendent		
tmp\jo\94005		
Attachment		
Agreed and accepted this	day of	
by	day of as representative of _	, 199



April 20, 1994

Shell Western E&P
P O Box 576
Houston Tx 77001-0576
Attn: Land Department

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
Wantz Abo, Drinkard Formations
Drinkard Field
Lea County, New Mexico

I.P. Andy By Tomb Paice

### Gentlemen:

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Northwest Operations Production Superintendent		
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Attachment		
Agreed and accepted this	day of as representative of	, 199



April 20, 1994

Southwest Royalties, Inc. P O Box 11390 Houston Tx 79702-1390 Attn: Jon M. Tate

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
Wantz Abo, Drinkard Formations
Drinkard Field
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S.P. Jacky By Tombrace

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	•
day ofas representative of	, 199



April 20, 1994

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

Request Exception to Rule 303-A RE: Downhole Commingle Lou Worthan No. 15

Unit G, 1980' FNL & 1860' FEL

Sec. 11, T-22-S, R-37-E Wantz Abo, Drinkard Formations

Drinkard Field

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S. P. Guidry Northwest Operations Production Superintendent			
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Attachment			
Agreed and accepted thisby	day ofas representative of	, 199	4
	as rebreaementive or	<del></del>	



April 20, 1994

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

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
Wantz Abo, Drinkard Formations
Drinkard Field
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S. P Ludy Bottom nee

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April 20, 1994

Texaco Exploration & Production P O Box 3109 Midland Tx 79702-3109 Attn: Land Department

S. P. Audy Bo Toms?

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
Wantz Abo, Drinkard Formations
Drinkard Field
Lea County, New Mexico

### Gentlemen:

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Northwest Operations Production Superintendent		
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Attachment		
Agreed and accepted this by	day ofas representative of	, 1994 , .

APR 26 1994

OIL CONSERVE FOR DIVISION

Marathon 94 JUN 9 AM 8 50

RECE VED



RESERVOIR ENGINEERING

P.O. Box 552 Midland, TX 79702-0552; AFR 28 PM 2: 31, Telephone 915/682-1626

ONSHORE



Oil Company

April 20, 1994

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

RE:

Request Exception to Rule 303-A Downhole Commingle Lou Worthan No. 15 Unit G, 1980' FNL & 1860' FEL Sec. 11, T-22-S, R-37-E Wantz Abo, Drinkard Formations Drinkard Field Lea County, New Mexico

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Sincerely, S. P. Audy by Tom Price

S. P. Guidry

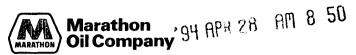
Northwest Operations

Production Superintendent

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Attachment

Agreed and accepted this 6th day of June by Randy J. Prant as representative of Amenada Hum Comp.



April 20, 1994

Southwest Royalties, Inc. P O Box 11390 Houston Tx 79702-1390 Attn: Jon M. Tate

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Downhole Commingle
Lou Worthan No. 15
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Sincerely,

S. P. Guidry

Northwest Operations Production Superintendent

S.P. Sucho By Tomb wel

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Attachment

Agreed and accepted this 26 th day of April 1994 by as representative of Sethand Royalfies.

OIL CONSERVE FOR DIVISION RECEIVED



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

April 20, 1994

American Exploration Company 1331 Lamar, Suite 900 Houston Tx 77010-3086

RECEIVED

APR 2 5 1994

LAND DEPT.

RE: Request Exception to Rule 303-A

Lea County, New Mexico

Downhole Commingle
Lou Worthan No. 15
Unit G, 1980' FNL & 1860' FEL
Sec. 11, T-22-S, R-37-E
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S. P. Guidry

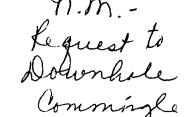
Northwest Operations

Production Superintendent

S. P. Hudy By Ton Frice

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Attachment



OIL CONSERVE FOR DIVISION RECEIVED



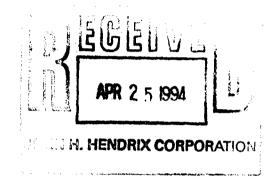
9 AM 8 50

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

April 20, 1994

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

RE: Request Exception to Rule 303-A
Downhole Commingle
Lou Worthan No. 15
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S. P. Guidry By Troffice S. P. Guidry

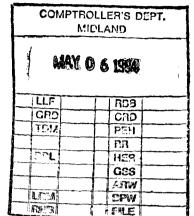
Northwest Operations Production Superintendent

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Attachment

Agreed and accepted this day of May 1994 by Commit Helitary as representative of John H. Hendis & Corp.





April 20, 1994

Texaco Exploration & Production P O Box 3109 Midland Tx 79702-3109 Attn: Land Department

RE: Request Exception to Rule 303-A

Downhole Commingle Lou Worthan No. 15

Unit G, 1980' FNL & 1860' FEL Sec. 11, T-22-S, R-37-E Wantz Abo, Drinkard Formations

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Sincerely,

S. P. Guidry

Northwest Operations Production Superintendent

S. P. Hurdry By Tomb,

tmp\jo\94005

Attachment

Agreed and accepted this /2 day of May , 1994 by Moods (Athoric as representative of Texas /w.

### STATE OF NEW MEXICO



### $_{\mathrm{DIV}}$ ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

94 MAY Z AM 8 50 BRUCE KING GOVERNOR

4-26-94

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

2.00			
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	~··	·	
RE: Proposed: MC DHC NSL NSP SWD WFX PMX			
Gentlemen:			
I have examined the application of the application	Loullorthan Lease & Well No. Unit	#15-6 S-T-R	<u>11-22-3</u> 7
OK.			
	and the second s		<del>,</del>
Yours very truly,  Jerry Sexton Supervisor, District 1			

/ed