

10,257



PATRICK H. LYONS
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

RECEIVED

MAY 06 2003

**OIL CONSERVATION
DIVISION**

May 5, 2003

ChevronTexaco
15 Smith Road
Midland, Texas 79705

Attn: Mr. Kevin F. Hickey

Re: 2003 Plan of Development
Arrowhead Grayburg Unit
Lea County, New Mexico

Dear Mr. Hickey:

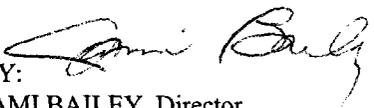
The Commissioner of Public Lands has, of this date, approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

PATRICK H. LYONS
COMMISSIONER OF PUBLIC LANDS

BY: 

JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

PL/JB/cpm
xc: Reader File

OCD

BLM



JIM BACA
COMMISSIONER

State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

#10259

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

May 21, 1991

Chevron U.S.A., Inc.
P.O. Box 1150
Midland, Texas 79702

Attn: Denise K. Beckham

Re: Arrowhead-Grayburg Unit
Secondary Recovery Unit
Lea County, New Mexico

Dear Ms. Beckham,

Please be advised that the Commissioner of Public Lands this date May 21, 1991 has granted final approval for the Secondary Recovery Arrowhead-Grayburg Unit in Lea County, New Mexico effective June 1, 1991.

We concur with OCD Case Nos. 10259, 10260, 10261 and Order Nos. R-9482, R-9483, and R-9484 dated April 8, 1991. Enclosed are five (5) Certificates of Approval and one (1) copy of the Approved Arrowhead-Grayburg Unit Agreement. Your filing fee in the amount of \$420 was received.

If you have any questions regarding this matter, please contact our office at (505) 827-5744.

Sincerely,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
Floyd O. Prando, Director
Oil, Gas & Minerals Division

JB/FOP/jsw

cc TRD - Oil and Gas Processing
OCD
BLM
Royalty Management

REPORT TO DEPARTMENTS

UNIT NAME Arrowhead-Grayburg Unit
 OPERATOR Chevron USA, Inc.
 COUNTY Lea County

DATE APPROVED	OCC CASE NO. OCC ORDER NO.	EFFECTIVE DATE	TOTAL ACREAGE	STATE	FEDERAL	INDIAN-FEE	SEGREGATION CLAUSE	TERM
May 21, 1991	10259/R-9482	June 1, 1991	5,922.26	3,597.63	554.30	1,770.33	no	so long as
	10260/R-9483							
	10261/R-9484							

UNIT AREA

Township 21 South, Range 36 East, NMPM
 Section 25: All
 Section 26: SE/4 SE/4
 Section 35: E/2; E/2 SW/4; SW/4 SW/4; SE/4 NW/4
 Section 36: All

Township 22 South, Range 36 East, NMPM
 Section 1: All
 Section 2: All
 Section 11: NE/4 NW/4; NE/4; NE/4 SE/4
 Section 12: All
 Section 13: E/2; E/2 NW/4; NW/4 NW/4; NE/4 SW/4
 Section 24: NE/4 NE/4

Township 22 South, Range 37 East, NMPM
 Section 6: W/2 NW/4; SW/4
 Section 7: W/2; S/2 SE/4; NW/4 SE/4
 Section 18: All
 Section 19: N/2 N/2



United States Department of the Interior
BUREAU OF LAND MANAGEMENT



RECEIVED
'91 MAY 20 AM 9 22
Roswell District Office
P.O. Box 1397
Roswell, New Mexico 88202-1397

IN REPLY
REFER TO:

NMNM84642X
3180 (065)

Chevron U.S.A., Inc.
Attention: Denise K. Beckham
P. O. Box 1150
Midland, TX 79705

MAY 16 1991

Gentlemen:

One approved copy of the Arrowhead Grayburg Unit Agreement, Lea County, New Mexico, is enclosed. Such agreement has been assigned No. NMNM84642X and will become effective upon submitted of a Certificate of Effectiveness pursuant to section 24 of the unit agreement. This approval is subject to like approval by the Commissioner of Public Lands and the NMOCD.

Approval of the agreement does not warrant or certify that the operator thereof, and other working interest owners hold legal or equitable title to the leases which are committed hereto.

You are requested to furnish all interested principals with appropriate evidence of this approval.

Sincerely,

ORIG. SIGNED RICHARD W. MELTON

FOR Armando A. Lopez
Assistant District Manager,
Minerals

1 Enclosure

cc:

Commissioner of Public Lands
MMS, Denver (3240)
NMOCD, Santa Fe

CERTIFICATION-DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior, the Act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C., secs. 181, et seq., and delegated to the District Manager under the authority of 43 CFR 3180, I do hereby:

- A. Approved the attached agreement for the development and operation of the Arrowhead Grayburg unit area, State of New Mexico. This approval shall be invalid ab initio if the public interest requirement under §3183.4 (b) of this title is not met.

- B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.

- C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

ORIG. SIGNED RICHARD W. MELLON

ACTIN

ADM, Minerals
Bureau of Land Management

MAY 15 1901

Date

NMNM84642X
Contract No.

**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 14th day of January, 1991.

ABBY CORPORATION

*Signed RATIFICATION
of working INTEREST
OWNERS*

By Scott A. Harris
Title: President

P. O. Box 1629
Grand Junction, CO 81502

NOTARY ACKNOWLEDGMENT

§

COUNTY OF MESA §

The foregoing instrument was acknowledged before me this 14th day of January, 1991, by Scott A. Harris, President, for/or ABBY CORPORATION, a New Mexico corporation, on behalf of said corporation.

My Commission Expires:
April 23, 1994

Doris S. Van Loan
Doris S. Van Loan
Notary Public in and for
Mesa County, Colorado.

**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

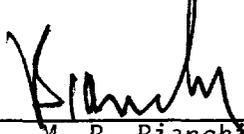
In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19,, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19,, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 29 day of January, 1991.

AMERADA HESS CORPORATION

By 
 Title: M. B. Bianchi
 Senior Vice President
 Box 2040 Exploration & Production
 Tulsa, OK 74102

DO
Plus
JCH
JH
AK

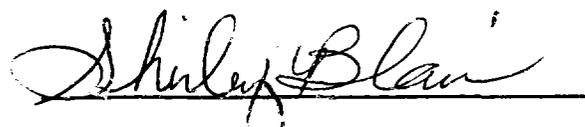
CORPORATION ACKNOWLEDGMENT

THE STATE OF OKLAHOMA §
 COUNTY OF TULSA §

The foregoing instrument was acknowledged before me this 29 day of January, 1991, by M. B. Bianchi, Senior Vice President, for/or AMERADA HESS CORPORATION, a Delaware corporation, on behalf of said corporation.

My Commission Expires:

August 15, 1994



Shirley Blair
 Notary Public in and for Tulsa County,
 Oklahoma

RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 5th day of December, 1990.

AMERICAN EXPLORATION PRODUCTION COMPANY, a Managing Partner for New York Life Oil & Gas Operating Production Partnership III-B

By: W. G. Pattillo
W. G. Pattillo
Senior Vice President-Land *RCVW*

AMERICAN EXPLORATION COMPANY, Individually and as Attorney-in-Fact for American Production Partnership-VI, Ltd., American Production Partnership-VII, Ltd., New York Life Oil & Gas Production Partnership II-B, New York Life Oil & Gas Production Partnership II-C, New York Life Oil & Gas Production Partnership II-E, New York Life Oil & Gas Production Partnership II-F, and New York Life Oil & Gas Production Partnership II-G

AMERICAN EXPLORATION ACQUISITION-VI CORP.

By: W. G. Pattillo
W. G. Pattillo
Senior Vice President-Land
700 Louisiana, Suite 2100
Houston, Texas 77002-2793 *RCVW*

By: W. G. Pattillo
W. G. Pattillo
Senior Vice President-Land *RCVW*

CORPORATION ACKNOWLEDGMENT

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____, for/or AMERICAN EXPLORATION COMPANY, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for

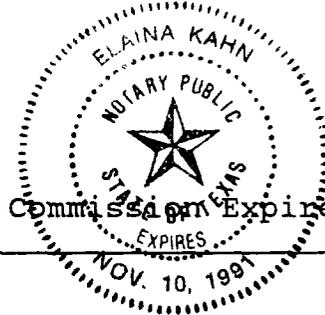
STATE OF TEXAS §

COUNTY OF HARRIS §

This instrument was acknowledged before me this 5th day of December, 1990, by W. G. Pattillo, Senior Vice President-Land of AMERICAN EXPLORATION COMPANY, Individually, a Delaware corporation, and in its capacity as Attorney-in-Fact for AMERICAN PRODUCTION PARTNERSHIP-VI, LTD., AMERICAN PRODUCTION PARTNERSHIP-VII, LTD., NEW YORK LIFE OIL & GAS PRODUCTION PARTNERSHIP II-B, NEW YORK LIFE OIL & GAS PRODUCTION PARTNERSHIP II-C, NEW YORK LIFE OIL & GAS PRODUCTION PARTNERSHIP II-E, NEW YORK LIFE OIL & GAS PRODUCTION PARTNERSHIP II-F, and NEW YORK LIFE OIL & GAS PRODUCTION PARTNERSHIP II-G, on behalf of said corporation.

My Commission Expires:

NOV. 10, 1991



Elaina Kahn
Notary Public in and for the State of Texas

STATE OF TEXAS §

COUNTY OF HARRIS §

This instrument was acknowledged before me this 5th day of December, 1990, by W. G. Pattillo, Senior Vice President-Land of AMERICAN EXPLORATION PRODUCTION COMPANY, a Delaware corporation, in its capacity as a Managing Partner for NEW YORK LIFE OIL & GAS OPERATING PRODUCTION PARTNERSHIP III-B, on behalf of said corporation.

My Commission Expires:

NOV. 10, 1991



Elaina Kahn
Notary Public in and for the State of Texas

STATE OF TEXAS §

COUNTY OF HARRIS §

This instrument was acknowledged before me this 5th day of December, 1990, by W. G. Pattillo, Senior Vice President-Land of AMERICAN EXPLORATION ACQUISITION-VI CORP., a Delaware corporation, on behalf of said corporation.

My Commission Expires:

NOV. 10, 1991



Elaina Kahn
Notary Public in and for the State of Texas

**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 11th day of February, 1991.

TRUST U/D DONALDSON BROWN

By J. Michael Miller, III J. Michael Miller, III
Vice President
Title: Mercantile-Safe Deposit and Trust Company
Trustee U/D D. Brown
Trust U/D Donaldson Brown
c/o Broventure Co. Inc.
Attn: Donald Hughes
16 West Madison Street
Baltimore, MD 20201

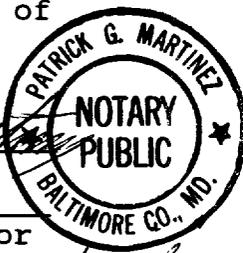
THE STATE OF Maryland §
CITY OF Baltimore §

Before me, the undersigned authority, on this day personally appeared J. Michael Miller, III, known to me to be the person whose name are/is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed and in the capacity therein stated.

Given under my hand and seal of office, this the 11th day of February, 1991.

My Commission Expires:
11/1/93

Patrick G. Martinez
Notary Public in and for
County of Baltimore, SE of Md.



**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 11 day of January, 1991.

John R. Bryant
JOHN R. BRYANT
911 West Silver
Hobbs, NM 88240

THE STATE OF NEW MEXICO §
COUNTY OF LEA §

The foregoing instrument was acknowledged before me this 11th day of January, 1991, by JOHN R. BRYANT.

My Commission Expires:
11-14-91

Shirley Patterson
A Notary Public in the
State of New Mexico
County of Lea

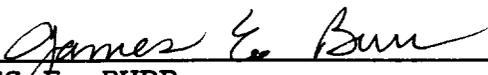
**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 16th day of January, 1991.



JAMES E. BURR

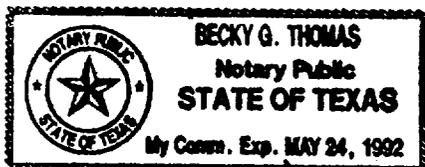
3803 Wedgewood Ct.
Midland, TX 79707-4705

THE STATE OF TEXAS §

COUNTY OF MIDLAND §

The foregoing instrument was acknowledged before me this
16th day of January, 1991, by
JAMES E. BURR.

My Commission Expires:





A Notary Public in the
State of Texas
County of Midland

RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 13TH day of February, 1991.

CONOCO, INC.

By Mark K. Mosley

Title: Attorney-in-Fact

10 Desta Drive
Midland, TX 79705

CORPORATION ACKNOWLEDGMENT

THE STATE OF TEXAS §

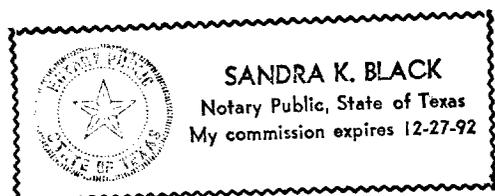
COUNTY OF MIDLAND §

The foregoing instrument was acknowledged before me this 13TH day of February, 1991, by MARK K. MOSLEY, ATTORNEY-IN-FACT, for/of CONOCO, INC., a DELAWARE corporation, on behalf of said corporation.

My Commission Expires:

12-27-92

Sandra K. Black
Notary Public in and for



**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 1st day of February, 1991.

DASCO ENERGY CORPORATION

By Ben Alexander
Title: Chairman & CEO

Drawer 2545
Hobbs, NM 88240

CORPORATION ACKNOWLEDGMENT

THE STATE OF New Mexico §

COUNTY OF Lea §

The foregoing instrument was acknowledged before me this 1st day of February, 1991, by Ben Alexander, Chairman & CEO, for/or DASCO ENERGY CORPORATION, a New Mexico corporation, on behalf of said corporation.

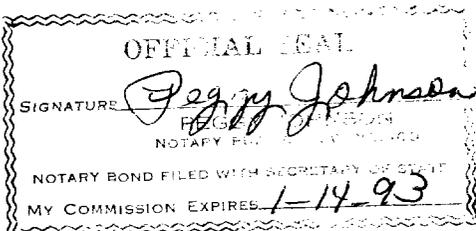
My Commission Expires:

1-14-93

Peggy Johnson

New Mexico

Notary Public in and for



WI 16

**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 25th day of January, 1991.

EXXON CORPORATION *

By R. R. Hickman DIV. LDMN. 1.2
 Title: R. R. Hickman, Attorney-In-Fact DIV. GEOL. JS
 P. O. Box 1700 DIV. ACCTG. JS
 Midland, TX 79702 DIV. ENGRG. WR
 DIV. LAW SL

*Exxon's execution of this agreement is expressly conditioned upon the agreement of all other working interest owners in the subject unit that Exxon shall not have any obligation to: 1) Provide a useable wellbore (sometimes referred to as a "demand well") or any partial interest therein under the terms of Article 11 of the Unit Operating Agreement; or 2) Make all or any portion of the \$80,000 monetary payment provided for in said Article 11.

CORPORATION ACKNOWLEDGMENT

THE STATE OF TEXAS §
 COUNTY OF MIDLAND §

The foregoing instrument was acknowledged before me this 25th day of January, 1991, by R. R. HICKMAN, Attorney-In-Fact, for/or EXXON CORPORATION a _____ corporation, on behalf of said corporation.

My Commission Expires:

 HELEN J. HOWARD
 Notary Public, State of Texas
 My commission expires 8-29-91

Helen J. Howard
 Notary Public in and for

RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 28th day of February, 1991.

MARATHON OIL COMPANY

By R. S. Kessler
Title: _____



P. O. Box 552
Midland, TX 79702

CORPORATION ACKNOWLEDGMENT

THE STATE OF Texas §
COUNTY OF Midland §

The foregoing instrument was acknowledged before me this 28th day of February, 1991, by R.S. Kessler, Attorney In Fact, for/or MARATHON OIL COMPANY, a Ohio corporation, on behalf of said corporation.

My Commission Expires:

4-27-93

Walter A. Hertel
Notary Public in and for

**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 5th day of March, 1991.

Lora B. McAlpin
LORA B. MCALPIN

900 Ethel Blvd.
Bryan, Texas 77802-1707

THE STATE OF Texas §
COUNTY OF Brewer §

The foregoing instrument was acknowledged before me this 5th day of MARCH, 1991, by LORA B. MCALPIN.

My Commission Expires:
9/6/94



Chris A. Chastain
A Notary Public in the
State of Texas
County of Brewer

**RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT**

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 22nd day of January, 1991.

THE MOORE TRUST

By Richard L. Moore
Title: Attorney-in-Fact

P. O. Box 1733
Midland, TX 79702

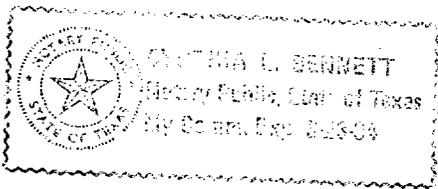
~~CORPORATION~~ ACKNOWLEDGMENT

THE STATE OF TEXAS §
COUNTY OF MIDLAND §

The foregoing instrument was acknowledged before me this 22nd day of January, 1991, by Richard L. Moore, Attorney-in-Fact, for/~~for~~ THE MOORE TRUST, a ~~corporation, on behalf of said corporation.~~

My Commission Expires:
3-23-94

Cynthia L. Bennett
Notary Public in and for
Midland County



RATIFICATION AND JOINDER
OF UNIT AGREEMENT AND OPERATING AGREEMENT
FOR ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other Working Interest Owners of the Unit Operating Agreement for the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, the undersigned working interest owner hereby expressly ratifies, approves, and adopts said Unit Agreement, and also said Unit Operating Agreement as fully as though the undersigned had executed the original agreements.

This Ratification and Joinder shall be effective as to the undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder shall be binding upon the undersigned, its successors and assigns.

EXECUTED this 23 day of January, 1991.

OXY USA, INC.

By [Signature]
Title: Attorney-in-Fact

P. O. Box 50250
Midland, TX 79710

CORPORATION ACKNOWLEDGMENT

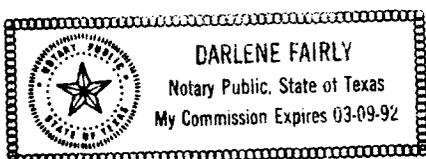
THE STATE OF Texas §
COUNTY OF Midland §

The foregoing instrument was acknowledged before me this 23 day of January, 1991, by P.N. McCre, Attorney-in-Fact, for/or OXY U.S.A., INC., a Delaware corporation, on behalf of said corporation.

My Commission Expires:

3-9-92

[Signature]
Notary Public in and for
Midland Co., Texas





Chevron U.S.A. Inc.

P.O. Box 1150, Midland, TX 79702 • Phone (915) 687-7235
15 Smith Road, Midland, TX 79705 • Fax (915) 687-7666

OIL CONSERVATION DIVISION
RECEIVED

'91 MAY 6 AM 9 29

Denise K. Beckham
Land Representative
Permian Basin Land Division

May 2, 1991

Arrowhead Grayburg
Secondary Recovery Unit
Lea County, New Mexico

*Bob Stewart handling
with Tom Kellahan
File in Case 10259
File*

Member and Director of the
Oil Conservation Division
Mr. William J. LeMay
State of New Mexico
Oil Conservation Division
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Dear Mr. LeMay:

Chevron U.S.A. Inc., as Unit Operator for the Arrowhead Grayburg Unit has received the State of New Mexico Oil Conservation Division Order Nos. R-9482, R-9483, & R-9484 approving Chevron's applications under Case Nos. 10259, 10260 and 10261.

Attached for your files, please find one original and one copy of the Ratification and Joinder from the Working Interest Owners, Royalty and Overriding Royalty Owners approving the Unit Agreements and committing their interest to the Unit. (Current Working Interest Owners approval = 87.028%, Royalty & Overriding Royalty approval = 90.9428%.)

Also attached is one original and one copy of the Ballot for approval of the Orders of the New Mexico Oil Conservation Division for Statutory Unitization. This Ballot was sent out to all Working Interest Owners, Royalty and Overriding Royalty Owners for their approval of the Orders and the Orders' contents, and Chevron's plans for statutory operations. For your information, we have included print-outs indicating we have 79.6473% of the Working Interest Owners and 87.1085% of the Royalty and Overriding Royalty owners who have approved the ballot. This should satisfy the statutory requirement for 75% approval of statutory utilization from both working interest and royalty interest owners.

In view of the above, Chevron requests June 1, 1991 to be designated as the effective date of the Arrowhead Grayburg Unit. I have also attached a copy of the Certificate of Effectiveness which will be filed in the Lea County Records for your execution.

Mr. William J. LeMay

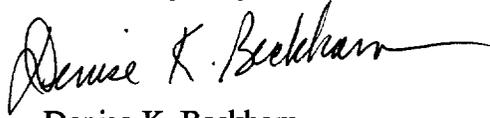
-2-

May 2, 1991

Chevron has also requested final approval from the BLM and the State Land office.

Should you have any questions, please contact me at 915-687-7235.

Yours very truly,

A handwritten signature in cursive script that reads "Denise K. Beckham". The signature is written in black ink and has a long, sweeping horizontal line extending to the right.

Denise K. Beckham

DKB/va
WLD10501.01L

ARROWHEAD GRAYBURG UNIT

LEA COUNTY, NEW MEXICO

CERTIFICATE OF EFFECTIVENESS

The State of New Mexico Oil Conservation Division of the Energy, Minerals and Natural Resources Department hereby certifies as follows:

- (a) In accordance with the provision of the Statutory Unitization Act (Section 70-7-1 through 70-7-21, NMSA-1978), the Division entered Order Nos. R-9482, R-9483, and R-9484 effective April 8, 1991 which, among other things, approved the statutory unitization of the Arrowhead Grayburg Unit, provided that said orders shall become effective when seventy-five percent of the working interest and seventy-five percent of the royalty interest owners in the Arrowhead Grayburg Unit have approved the plan for unit operations as required by Section 70-7-8, NMSA-1978.
- (b) Chevron U.S.A. Inc., as Unit Operator, has provided the Division with documentation which verifies that the persons owning the required percentage of interests in Arrowhead Grayburg Unit have approved the plan for unit operations in accordance with Division rules, regulations and the subject orders.
- (c) Accordingly, the Division Order Nos. R-9482, R-9483, and R-9484 are now in full force and effect and the Unit Agreement and Unit Operating Agreement shall become effective as of June 1, 1991 at 7:00 AM for the area known as Arrowhead Grayburg Unit and more specifically described as follows:

Township 21 South, Range 36 East, NMPM

- Section 25: All
- Section 26: SE/4SE/4
- Section 35: E/2; E/2SW/4; SW/4SW/4; SE/4NW/4
- Section 36: All

Township 22 South, Range 36 East, NMPM

- Section 1: All
- Section 2: All
- Section 11: NE/4NW/4; NE/4; NE/4SE/4
- Section 12: All
- Section 13: E/2; E/2NW/4; NW/4NW/4; NE/4SW/4
- Section 24: NE/4NE/4

Township 22 South, Range 37 East, NMPM

- Section 6: W/2NW/4; SW/4
- Section 7: W/2; S/2SE/4; NW/4SE/4
- Section 18: All
- Section 19: N/2N/2

IN WITNESS WHEREOF, this certificate is executed this ___ day of _____, 1991.

State of New Mexico Oil Conservation Division

By: _____
William J. LeMay
Director

STATE OF NEW MEXICO

COUNTY OF SANTA FE

The foregoing instrument was acknowledged before me this ___ day of _____, 19___, by _____, Director, State of New Mexico Oil Conservation Division.

Notary Public

My Commission Expires:



Chevron U.S.A. Inc.

P.O. Box 1150, Midland, TX 79702 • Phone (915) 687-7235
15 Smith Road, Midland, TX 79705 • Fax (915) 687-7666

Denise K. Beckham
Land Representative
Permian Basin Land Division

May 14, 1991

Exhibit "B"
Unit Agreement
Arrowhead Grayburg Unit
Lea County, New Mexico

Rec'd by OGD
5-15-91

To Case 10259
File

Oil & Gas Division
State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Attn: William J. LeMay

Dear Mr. LeMay:

Under my letter dated May 10, 1991, Chevron U.S.A. Inc. submitted a copy and an originally executed Unit and Unit Operating Agreement with a revised Exhibit "B". Chevron has subsequently been contacted by the BLM requesting a revision of Exhibit "B" concerning Lessee of Record under federal leases. We have made those requested revisions, updating to reflect current parties and including the percentage owned, and have attached a copy of said revised Exhibit for your files.

Chevron has now made the requested revisions from both the BLM and the State of New Mexico Land Office.

Should you have any questions, comments or need further information, please contact me at 915-687-7235.

Yours very truly,

Denise K. Beckham

DKB/va
WLD10513.15L

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UTILIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 FEDERAL LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT	
1A RUBY S. CROSBY	T22S-R37E, N.M.P.M. SEC. 18: NW/4 NE/4, NE/4 NW/4 (LIMITED FROM TOP OF UTILIZED FORMATION TO A DEPTH OF 4000' SUBSURFACE)	80.00	LC-034548 HBP 11/01/27 EXCHANGED 12/31/38	U.S.A. SCHEDULE C	DONALDSON BROWN TRUSTS 16.67% SUN OPERATING LTD. PARTNERSHIP 50% PRESIDIO EXPLORATION INC. 33.33%	Elyse S. Patterson Trust "g" H. B. Wright Estate Harold B. Bradbury Hawkins Oil & Gas, Inc. Rubie C. Bell Stanley W. Crosby, III Sue Saunders Graham The Toles Company Trust U/D Donaldson Brown	0.0050000 Burton Veteo 0.4166670 Chevron U.S.A. Inc 0.0043536 Dasco Energy Corp. 9.9990000 David Mussett 0.0126449 Larry Nermyr 0.0126449 Marlan Mussett 0.0050000 Meridian Oil, Inc. 0.0050000 Para Mia, Inc. 5.0000000	2.0408260 35.5468750 20.4081550 0.4999995 0.7812500 8.6836910 13.6718750 18.3673285	0.8601510
1B RUBY S. CROSBY	T22S-R37E, N.M.P.M. SEC. 18: NW/4 NE/4, NE/4 NW/4 (LIMITED FROM BELOW A DEPTH OF 4000' SUBSURFACE TO BASE OF UTILIZED FORMATION)	80.00	LC-034548 HBP 11/01/27 EXCHANGED 12/31/38	U.S.A. SCHEDULE C	DONALDSON BROWN TRUSTS 16.67% SUN OPERATING LTD. PARTNERSHIP 50% PRESIDIO EXPLORATION INC. 33.33%	Elyse S. Patterson Trust "g" H. B. Wright Estate Harold B. Bradbury Hawkins Oil & Gas, Inc. Rubie C. Bell Stanley W. Crosby, III Sue Saunders Graham The Toles Company Trust U/D Donaldson Brown	0.0050000 Borrego Properties, Inc. 0.4166670 Burton Veteo 0.0043536 Dasco Energy Corp. 9.9990000 David Mussett 0.0126449 Marlan Mussett 0.0126449 0.0050000 0.0050000 8.7500000 0.0050000 5.0000000	36.7346570 4.0816520 40.8163100 3.4500000 14.9173810	0.0000000
2 LOCKHART "B-1"	T22S-R36E, N.M.P.M. SEC. 1: S/2 N/2, SE/4	370.00	NM-62665 HBP 06/23/31 EXCHANGED 07/01/52	U.S.A. SCHEDULE C	CONOCO INC. 25% CHEVRON USA INC 25% AMOCO PROD. CO. 25% ARCO O & G CO. 25%	Caldwell J. Saunders Trust Elyse S. Patterson Trust "g" Lloyd Garringer Estate Mary Lee S. Reese Rubie C. Bell Stanley W. Crosby, III Sue Saunders Graham The Toles Company Woodlan Perry Saunders	3.0000000 Marathon Oil Company 0.4166700 0.0051200 1.0000000 0.6224400 0.6224400 0.4166700 0.4166700 1.0000000	25.0000000 25.0000000 25.0000000 25.0000000	9.3721080
3 C. J. SAUNDERS	T22S-R36E, N.M.P.M. SEC. 1: LOTS 3 & 4	80.24	LC-046295 HBP 01/11/39 EXCHANGED 01/01/59	U.S.A. SCHEDULE C	MARATHON OIL COMPANY 100%	Caldwell J. Saunders Trust Elyse S. Patterson Trust "g" Lloyd Garringer Estate Mary Lee S. Reese Rubie C. Bell Stanley W. Crosby, III Sue Saunders Graham The Toles Company Woodlan Perry Saunders	3.0000000 Marathon Oil Company 0.4166700 0.0051200 1.0000000 0.6224400 0.6224400 0.4166700 0.4166700 1.0000000	100.0000000	1.5458080
4A ELLIOTT B 6	T22S-R37E, N.M.P.M. SEC. 6: LOTS 6 & 7 (LIMITED FROM TOP OF THE UTILIZED FORMATION TO A DEPTH OF 3650' SUBSURFACE)	74.06	NM-001410 HBP 07/01/57 RENEMED 07/01/77	U.S.A. SCHEDULE C	SUN OPERATING LTD. PARTNERSHIP 62.5% DONALDSON BROWN TRUSTS 12.5% HAWKINS ACQ PART 1 1.71765% HAWKINS ACQ PART 11 0.36765% HAWKINS OIL & GAS INC. 0.78235% DOMINION RESOURCES INC. 22.13235%	Chevron U.S.A. Inc Larry Nermyr Meridian Oil, Inc. Trust U/D Donaldson Brown	69.4335940 0.9765630 17.0898430 12.5000000	0.0000000	

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAVBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 FEDERAL LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST		PARTICIPATION OF TRACT IN UNIT	
							OWNER AND PERCENTAGE	OWNER AND PERCENTAGE		
48 ELLIOTT B 6	T22S-R37E, N.M.P.M. SEC. 6; LOTS 6 & 7 (LIMITED FROM BELOW A DEPTH OF 3650' SUBSURFACE TO A DEPTH OF 4000' SUBSURFACE)	74.06	NM-001410 HBP 07/01/57 RENEWED 07/01/77	U.S.A. SCHEDULE C	SUN OPERATING LTD. PARTNERSHIP 62.5% DONALDSON BROWN TRUSTS 12.5% HAWKINS ACQ PART I 1.71765% HAWKINS ACQ PART II 0.36765% HAWKINS OIL & GAS INC. 0.78235% DOMINION RESOURCES INC. 22.13235%	Sohio Petroleum Company Trust U/D Donaldson Brown	9.9990000 5.0000000	Burton Veteto Chevron U.S.A. Inc Dasco Energy Corp. David Mussett Larry Nemyr Marian Mussett Meridian Oil, Inc. Para Mia, Inc.	1.5306200 44.4335940 15.3061160 0.3750000 0.9755630 6.5127680 17.0898430 13.7754960	0.1607790
4C ELLIOTT B 6	T22S-R37E, N.M.P.M. SEC. 6; LOTS 6 & 7 (LIMITED FROM BELOW A DEPTH OF 4000' SUBSURFACE TO THE BASE OF THE UNITIZED FORMATION)	74.06	NM-001410 HBP 07/01/57 RENEWED 07/01/77	U.S.A. SCHEDULE C	SUN OPERATING LTD. PARTNERSHIP 62.5% DONALDSON BROWN TRUSTS 12.5% HAWKINS ACQ PART I 1.71765% HAWKINS ACQ PART II 0.36765% HAWKINS OIL & GAS INC. 0.78235% DOMINION RESOURCES INC. 22.13235%	Sohio Petroleum Company Sun Operating Ltd. Ptn. Trust U/D Donaldson Brown	9.9990000 10.9375000 5.0000000	Borrego Properties, Inc. Burton Veteto Dasco Energy Corp. David Mussett Marian Mussett	36.7346570 4.0816520 40.8163100 3.4500000 14.9173810	0.0000000

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 STATE LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT	
5 STATE A AC 2	T22S-R36E, N.M.P.M. SEC. 11: NE/4, NE/4 NW/4 & NE/4 SE/4	240.00	A-983-4 HBP 07/27/28	STATE OF NEW MEXICO 12.5	SUN OPERATING LIMITED PARTNERSHIP		Andrew B. Burtleson Andrew C. Price Bernard G. Scott Celia A. Zinn Chicora Modesta Williams Trust Gregory J. Brose James W. Winkler Estate Jefferson Wheat Gataga Williams Trust John R. Brose Kim D. Jones L. Paul Latham Larry A. Cress Randy M. Kidwell Estate Southwest O & G Income Fund IX-A, L.P. Southwest Royalties, Inc. The Williams Partnership Thomas A. & Sharon P. Brose Thomas H. Moore M. Scott Ramsey	0.2000000 0.2500000 0.7500000 0.2500000 1.5000000 0.0750000 7.0750000 1.5000000 0.5000000 0.2500000 0.5000000 0.2500000 0.5000000 3.5375000 3.5375000 77.0000000 0.0750000 1.2500000 1.0000000	2.3939320
6 STATE J 2 (WAS TRACT 15)	T22S-R36E, N.M.P.M. SEC. 2: LOT 5 1, 2, 3 & 4 S/2 N/2 & SE/4	480.64	B-1534 HBP 09/25/28 EXCHANGED 12/22/32	STATE OF NEW MEXICO 12.5	CONOCO, INC.		Conoco, Inc.	100.0000000 22.1920840	
7 NEW MEXICO M STATE (WAS TRACT 8)	T22S-R37E, N.M.P.M. SEC. 18: SE/4 SEC. 19: LOT 1, NE/4 NW/4 & N/2 NE/4	316.99	B-934 HBP 11/22/28 EXCHANGED 06/06/32	STATE OF NEW MEXICO 12.5	EXXON COMPANY U.S.A. Franklin Energy, Partnership	0.1320890	American Exploration ACQ, VI American Exploration Company American Production Part. VI American Production Part. VII American Production Part. VIII N.Y. Life O & G Prod. Part. II-B N.Y. Life O & G Prod. Part. II-E N.Y. Life O & G Prod. Part. II-F N.Y. Life O & G Prod. Part. II-G N.Y. Life O & G Prod. Part. III-B N.Y. Life O & G Prod. Part. III-C	12.4262000 5.1265040 52.0837000 12.8162580 2.8987674 4.5173835 2.1160042 5.1335880 1.4322116 1.4493833	3.4915270
8 STATE PA (WAS TRACT 9)	T22S-R37E, N.M.P.M. SEC. 18: E/2 SW/4	80.00	B-934-13 HBP 11/22/28 EXCHANGED 06/06/32	STATE OF NEW MEXICO 12.5	AMEPADA HESS CORP.		Amerada Hess Corporation	100.0000000 1.9157340	
9 NEW MEXICO G STATE (WAS TRACT 10)	T21S-R36E, N.M.P.M. SEC. 26: SE/4 SE/4	40.00	B-935 HBP 11/22/28 EXCHANGED 06/06/32	STATE OF NEW MEXICO 12.5	EXXON COMPANY U.S.A.		Exxon Company, U.S.A.	100.0000000 0.0913930	
10 STATE M (WAS TRACT 12)	T21S-R36E, N.M.P.M. SEC. 36: W/2 SW/4	80.00	B-1481-15 HBP 11/26/28 EXCHANGED 12/19/32	STATE OF NEW MEXICO 12.5	OXY U.S.A. INC.		Oxy, U.S.A.	100.0000000 2.9095050	

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNINITIALIZED FORMATION FOR THE
 ARROWHEAD-GRAVBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 STATE LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
11 (WAS TRACT 11)	T22S-R36E, N.M.P.M. SEC. 2: SW/4	160.00	B-1484-B HBP 11/26/28 EXCHANGED 11/26/32	STATE OF NEW MEXICO	OXY U.S.A. INC.		Oxy, U.S.A.	100.0000000 2.0121710
12 (WAS TRACT 14)	T22S-R36E, N.M.P.M. SEC. 12: S/2	320.00	B-1506 HBP 12/01/28 EXCHANGED 12/20/32	STATE OF NEW MEXICO	ARCO OIL & GAS COMPANY		Atlantic Richfield Company	100.0000000 2.7785370
13 (WAS TRACT 6)	T21S-R36E, N.M.P.M. SEC. 25: NW/4 NE/4	40.00	A-1543-1 HBP 12/29/28	STATE OF NEW MEXICO	CHEVRON U.S.A. INC.		Chevron U.S.A. Inc	100.0000000 0.0971370
14A (WAS TRACT 7A)	T22S-R36E, N.M.P.M. SEC. 13: E/2, E/2 NW/4 NW/4 NW/4 & NE/4 SW/4	480.00	A-2614 HBP 04/21/30	STATE OF NEW MEXICO	USX/MARATHON OIL COMPANY		Marathon Oil Company	100.0000000 3.6631460
14B (WAS TRACT 7B)	T22S-R36E, N.M.P.M. SEC. 24: NE/4 NE/4	40.00	A-2614 HBP 04/21/30	STATE OF NEW MEXICO	USX/MARATHON OIL COMPANY		Atlantic Richfield Company Marathon Oil Company	0.0000000 100.0000000 0.1981230
15A (WAS TRACT 11A)	T21S-R36E, N.M.P.M. SEC. 36: W/2 SE/4 (LIMITED IN DEPTH FROM THE TOP OF THE UNINITIALIZED FORMATION TO A DEPTH OF 4000' SUBSURFACE)	80.00	B-1167-26 HBP 09/15/32	STATE OF NEW MEXICO	ARCO OIL & GAS COMPANY C/O SHELL OIL COMPANY		Andrea Singer Pollack Revocable Trust * Andrea Singer Pollack Revocable Trust * Atlantic Richfield Company	100.0000000 0.0000000 0.6088300
15B (WAS TRACT 11B)	T21S-R36E, N.M.P.M. SEC. 36: W/2 SE/4 (LIMITED IN DEPTH FROM BELOW A DEPTH OF 4000' SUBSURFACE TO THE BASE OF THE UNINITIALIZED FORMATION)	80.00	B-1167-26 HBP 09/15/32	STATE OF NEW MEXICO	ARCO OIL & GAS COMPANY C/O SHELL OIL COMPANY		Andrea Singer Pollack Revocable Trust * Carolyne Lovelless Schlicher Colin McWilliam David Petroleum Corp. Lucinda Lovelless Lucinda Oil & Gas Corporation McBride Oil & Gas Corporation Madine Prtdeau Lovelless Smith Nuevo Seis, Inc. Westway Petroleum Company	25.0000000 0.4394340 8.0000000 1.5625000 21.8750000 0.0000000 2.3438000 0.0000000 0.4394340 10.0000000 24.0000000 8.0000000 0.5859380 3.1250000
16 (WAS TRACT 11)	T21S-R36E, N.M.P.M. SEC. 25: NE/4 NE/4 S/2 NE/4 & NW/4 SEC. 35: E/2, SE/4 NW/4 NE/4 SW/4 & S/2 SW/4	760.00	B-1732 HBP 02/28/33	STATE OF NEW MEXICO	CHEVRON U.S.A. INC.		Chevron U.S.A. Inc	100.0000000 9.0738100

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 STATE LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
17 HARRY LEONARD (MCT-C)	T21S-R36E, N.M.P.M. SEC. 36: W/2 & E/2 SW/4	400.00	B-1732-1 HBP 02/28/33	STATE OF NEW MEXICO 12.5	CHEVRON U.S.A. INC.		Chevron U.S.A. Inc	100.0000000 15.8792970
18 STATE 36	T21S-R36E, N.M.P.M. SEC. 36: E/2 SE/4	80.00	E-2523 HBP 03/10/49	STATE OF NEW MEXICO 12.5	CHEVRON U.S.A. INC.		Chevron U.S.A. Inc	100.0000000 0.0000000

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNUTILIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE		OVERRIDING ROYALTY OWNER AND PERCENTAGE		WORKING INTEREST OWNER AND PERCENTAGE		PARTICIPATION OF TRACT IN UNIT
19 J. M. BROWNLEE	7213-R36E, N.M.P.M. SEC. 25; SW/4	160.00	HBP 09/25/26	Atlantic Richfield Company	0.3906300			Atlantic Richfield Company	100.0000000	0.9038850
				B. A. Christmas, Jr.	0.1953100					
				Beatrice V. Cook	0.0781200					
				Betty Moran Rice	0.3906250					
				Billie June Crow	0.3906300					
				Bradford Ace Christmas	0.0488300					
				Bradley Nomine Corporation	0.3906300					
				C. M. Grimes Trust	0.3906300					
				Candy Christmas	0.0488300					
				Cathie Cone Auvenshine	0.0585930					
				Cecil Frank Wilson	0.0781300					
				Charles B. Brownlee	0.5859400					
				Charles Daniel Ransom	0.0325300					
				Charon Oil Group	0.5859300					
				Clifford Cone	0.0585930					
				D. C. Trust	0.0585930					
				Doris B. Neal	0.5859300					
				Eunice James Gray	0.1953000					
				Fancher Archer	0.0976500					
				Geodyne Resources, Inc.	1.7578100					
				George W. Brownlee Estate	0.5859400					
				Gwen G. Hall	0.1562600					
				Helen Jane Christmas Barbry	0.0488300					
				Higgins Trust, Inc.	0.7812500					
				Jacob M. Green Estate	0.0390600					
				Joyce Ann Brown	0.3906200					
				June D. Speight	0.3906300					
				Katherine K. McIntyre Revocable Trust	0.0488300					
				Kathleen Cone Estate	0.2929650					
				Kelly H. Baxter	0.0195300					
				Kenneth G. Cone	0.0585930					
				Kirby D. Schenck	0.3906300					
				Lee Roberts	0.0781200					
				Louise B. Diggles	0.5859400					
				Marshall & Winston, Inc.	0.3906300					
				Mary Frances Hurley	0.0325400					
				Mary G. Moran fagan Payne Basden Trust	0.3906250					
				Mary T. Christmas Holladay	0.0488300					
				Nathan Appleman Trust	0.3906300					
				Newdy-Foresee Trust	0.1562500					
				Petco Limited	0.0976600					
				Robert E. King No. 2	0.0976600					
				Southwest Royalties, Inc.	0.1757700					
				Stephen N. James	0.1953000					
				The Home Stake Royalty Corporation	0.0976600					
				Tom R. Cone	0.0585930					
				William A. Kalliker	0.0488300					
				William Coleman Ransom	0.0325300					
					12.5000000					

*TOTAL 19

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UTILIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT			
20 J. M. BROWNLEE - KINGWOOD	T21S-R36E, N.M.P.M. SEC. 25: W/2 SE/4	80.00	HBP 09/25/26	Atlantic Richfield Company B. A. Christmas, Jr. Beatrice V. Cook Betty Moran Rice Billie June Crow Bradford Ace Christmas Bradley Nominee Corporation C. W. Grimes Trust Candy Christmas Cecile Cone Auvenshine Cecil Frank Wilson Charles B. Brownlee Charles Daniel Ransom Charron Oil Group Clifford Cone D. C. Trust Doris B. Neal Eunice James Gray Fancher Archer Geodyne Resources, Inc. George W. Brownlee Estate Gwen G. Hall Heleen Jane Christmas Barbry Higgins Trust, Inc. Jacob M. Green Estate Joyce Ann Brown June D. Speight Katherine K. McIntyre Revocable Trust Kathleen Cone Estate Kelly H. Baxter Kenneth G. Cone Kirby D. Schenck Lee Roberts Louise B. Diggles Marshall & Winston, Inc. Mary Frances Hurley Mary G. Moran Fagan Payne Basden Trust Mary T. Christmas Holladay Nathan Appleman Trust Newby-Foresee Trust Petco Limited R. E. King Estate Southwest O & G Income Fund IX-A, L.P. Stephen W. James Tom R. Cone Trio Petroleum Corporation William A. Kolliker William Coleman Ransom	0.3906300 0.1953100 0.0781300 0.3906300 0.3906200 0.0488300 0.3906300 0.3906300 0.0488200 0.0585900 0.0781300 0.5859300 0.0325530 0.5859300 0.0585900 0.1953100 0.0976600 1.7578000 0.5859300 0.1562600 0.0488300 0.7812500 0.0390600 0.3906300 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.3906200 0.0488300 0.3906300 0.1562500 0.0976600 0.1757790 0.1953200 0.0585900 0.0976600 0.0488300 0.0325540	Carolyne Lovelless Schlicher Colin McMillan David Petroleum Corp. Ladd Petroleum Corp. Lucinda Lovelless Nadine Pridau Lovelless Smith	0.5859300 1.5625000 2.3438000 5.4687000 0.5859200 1.1718500	Chevron U.S.A. Inc El Paso Natural Gas Co. *	100.0000000 0.0000000	0.0000000

*TOTAL 20

12.5000000

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAVBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT			
21A J. M. BROWNLEE - SAMDY	T21S-R36E, N.M.P.M. SEC. 25: E/2 SE/4 (LIMITED IN DEPTH FROM THE TOP OF THE UNITIZED FORMATION TO A DEPTH OF 3900' SUBSURFACE)	80.00	HBP 09/25/26	Atlantic Richfield Company B. A. Christmas, Jr. Beatrice V. Cook Betty Moran Rice Billie June Crow Bradford Ace Christmas Bradley Hominee Corporation C. W. Grimes Trust Candy Christmas Cathie Cone Auwenshine Cecil Frank Wilston Charles B. Brownlee Charles Daniel Ransom Charon Oil Group Clifford Cone D. C. Trust Doris B. Neal Eunice James Gray Fancher Archer Geodyne Resources, Inc. George W. Brownlee Estate Gwen G. Hall Helen Jane Christmas Barby Higgins Trust, Inc. Jacob M. Green Estate Joyce Ann Brown June D. Speight Katherine K. McIntyre Revocable Trust Kathleen Cone Estate Kelly H. Baxter Kenneth G. Cone Kirby D. Schenck Lee Roberts Louise B. Diggles Marshall & Winston, Inc. Mary G. Moran Fagan Payne Basden Trust Mary Frances Hurley Mary T. Christmas Holladay Nathan Appleman Trust Newby-Foresee Trust Petco Limited Robert E. King Estate Southwest O & G Income Fund IX-A, L.P. Stephen N. James Tom R. Cone Trio Petroleum Corporation William A. Kolliker William Coleman Ransom	0.3906300 0.1953100 0.0781300 0.3906300 0.3906200 0.0488300 0.3906300 0.3906300 0.0488200 0.0585900 0.0781300 0.5859300 0.0325530 0.5859300 0.0585900 0.5859300 0.1953100 0.0976600 1.7578000 0.5859300 0.1562600 0.0488300 0.7812500 0.0390600 0.3906300 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.3906200 0.0976600 0.1757790 0.1953200 0.0585900 0.0976600 0.0488300 0.0325540	0.1953100 0.0781300 0.3906300 0.3906200 0.0488300 0.3906300 0.0488200 0.0585900 0.0781300 0.5859300 0.0325530 0.5859300 0.0585900 0.5859300 0.1953100 0.0976600 1.7578000 0.5859300 0.1562600 0.0488300 0.7812500 0.0390600 0.3906300 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.3906200 0.0976600 0.1757790 0.1953200 0.0585900 0.0976600 0.0488300 0.0325540	3.1250000 1.5625000 7.8125000	Chevron U.S.A. Inc John R. Bryant	93.7500000 6.2500000	0.1405900
				TOTAL 21A						

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNUTILIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT				
218 J. M. BROWN/ET SANDY	1215-R36E, N.M.P.M. SEC. 25; E/2 SE/4 (LIMITED IN DEPTH FROM BELOW A DEPTH OF 3900' SUBSURFACE TO A DEPTH OF 3950' SUBSURFACE)	80.00	HBP 09/25/26	Atlantic Richfield Company B. A. Christmas, Jr. Beatrice V. Cook Betty Moran Rice Billie June Crow Bradford Ace Christmas Bradley Nominee Corporation C. W. Grimes Trust Candy Christmas Cathie Cone Auvenshine Cecil Frank Wilson Charles B. Brownlee Charles Daniel Ransom Charon Oil Group Clifford Cone D. C. Trust Doris B. Neal Eunice James Gray Fancher Archer Geodyne Resources, Inc. George W. Brownlee Estate Gwen G. Hall Helen Jane Christmas Barby Higgins Trust, Inc. Jacob M. Green Estate Joyce Ann Brown June D. Speight Katherine K. McIntyre Revocable Trust Kathleen Come Estate Kelly H. Baxter Kenneth G. Come Kirby D. Schenck Lee Roberts Louise B. Diggles Marshall & Winston, Inc. Mary Frances Hurley Mary G. Moran Fagan Payne Basden Trust Mary I. Christmas Holladay Nathan Appleman Trust Newby-Foresae Trust Petco Limited Robert E. King Estate Southwest O & G Income Fund IX-A, L.P. Stephen N. James Tom R. Cone Trio Petroleum Corporation William A. Kolliker William Coleman Ransom	0.3906300 0.1953100 0.0781300 0.3906300 0.3906200 0.0488300 0.3906300 0.0488200 0.0585900 0.0781300 0.5859300 0.0325530 0.5859300 0.0585900 0.5859300 0.1953100 0.0976600 1.7578000 0.5859300 0.1562600 0.0488300 0.7812500 0.0390600 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.1953200 0.0585900 0.0976600 0.0488300 0.0325540	0.3906300 0.1953100 0.0781300 0.3906300 0.3906200 0.0488300 0.3906300 0.0488200 0.0585900 0.0781300 0.5859300 0.0325530 0.5859300 0.0585900 0.5859300 0.1953100 0.0976600 1.7578000 0.5859300 0.1562600 0.0488300 0.7812500 0.0390600 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.1953200 0.0585900 0.0976600 0.0488300 0.0325540	G. T. McAlpin Lora B. McAlpin The Moore Trust The Moore Trust G. T. McAlpin Lora B. McAlpin The Moore Trust	3.1250000 1.5625000 7.8125000	G. T. McAlpin Lora B. McAlpin The Moore Trust	25.0000000 25.0000000 50.0000000	0.0000000
*TOTAL 218							12.5000000				

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UTILIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE		OVERRIDING ROYALTY OWNER AND PERCENTAGE		WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
21C J. M. BROWNLEE - SANDY	T21S-R36E, N. M. P. M. SEC. 25: E/2 SE/4 (LIMITED IN DEPTH FROM BELOW A DEPTH OF 3950' SUBSURFACE TO THE BASE OF THE UTILIZED FORMATION)	80.00	HBP 09/25/26	Atlantic Richfield Company B. A. Christinas, Jr. Beatrice V. Cook Betty Moran Rice Billie June Crow Bradford Ace Christinas Bradley Nominée Corporation C. W. Grimes Trust Candy Christinas Cathie Cone Auvenshine Cecil Frank Wilson Charles B. Brownlee Charles Daniel Ransom Charon Oil Group Clifford Cone D. C. Trust Doris B. Neal Eunice James Gray Fancher Archer Geodyne Resources, Inc. George W. Brownlee Estate Gwen G. Hall Helen Jane Christinas Barby Higgins Trust, Inc. Jacob M. Green Estate Joyce Ann Brown June D. Speight Katherine K. McIntyre Revocable Trust Kathleen Cone Estate Kelly H. Baxter Kenneth G. Cone Kirby D. Schenck Lee Roberts Louise B. Diggles Marshall & Winston, Inc. Mary Frances Hurley Mary G. Moran Fagan Payne Basden Trust Mary T. Christinas Holladay Nathan Appleman Trust Newby-Foressee Trust Petco Limited R. E. King Estate Southwest O & G Income Fund IX-A, L.P. Stephen N. James Tom R. Cone Trio Petroleum Corporation William A. Kolliker William Coleman Ransom	0.3906300 0.1953100 0.0781300 0.3906300 0.3906200 0.0488300 0.3906300 0.3906300 0.0488200 0.0585900 0.0781300 0.0585900 0.0781300 0.5859300 0.1953100 0.0976600 1.7578000 0.5859300 0.1562600 0.0488300 0.7812500 0.0390600 0.3906300 0.3906300 0.0488300 0.2929600 0.0195310 0.0585900 0.3906300 0.0781300 0.5859300 0.3906300 0.0325530 0.3906200 0.0488300 0.3906300 0.1562500 0.0976600 0.1757900 0.1953200 0.0976600 0.0585900 0.0488300 0.0325540	Carrollyn Lovelless Schlicher Collin McMillan David Petroleum Corp. G. T. McAlpin Lora B. McAlpin Lucinda Lovelless Nadine Pridau Lovelless Smith The Moore Trust	0.5859300 1.5625000 2.3438000 1.5625000 1.5625000 0.5859200 1.1718500 3.1250000	Chevron U.S.A. Inc	100.0000000 0.0000000
				TOTAL		12.5000000			

*TOTAL 21C

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UTILIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991
 PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
22 H. I. MATERN (NCT D. 1. & 1)	1225-R37E, N.M.P.M., SEC. 1: LOTS 1 & 2, SW/4 SEC. 12: N/2 1225-R37E, N.M.P.M., SEC. 6: LOTS 4 & 5 & E/2 SW/4 SEC. 7: LOTS 1 & 2, E/2 NW/4	868.39	HBP 09/22/33	Amoco Production Company Charles H. Price, II David E. Price Linwood Securities Trust Mack H. Mooridge Main Street Holding Co.	3.3742000 3.1518000 0.3502000 3.3742000 1.1248000 1.1248000	Chevron U.S.A. Inc	100.0000000 14.4709290
*TOTAL 22					12.5000000		
23 MATERN	1225-R37E, N.M.P.M., SEC. 7: LOT 3	36.98	HBP 12/17/35	Colonial Securities Co. State Street Bank & Trust Co.	4.6750000 7.8250000	Chevron U.S.A. Inc Larry Nermyr Meridian Oil, Inc. Trust U/D Donaldson Brown	68.8802080 0.3094550 13.6718750 16.6666670
*TOTAL 23					12.5000000		
24A MATERN	1225-R37E, N.M.P.M., SEC. 7: NE/4 SW/4 & NW/4 SE/4 (LIMITED IN DEPTH FROM THE TOP OF THE UTILIZED FORMATION TO A DEPTH OF 3,620' SUBSURFACE)	80.00	HBP 12/17/35	Colonial Securities Co. State Street Bank & Trust Co.	4.6750000 7.8250000	Chevron U.S.A. Inc Larry Nermyr Meridian Oil, Inc. Trust U/D Donaldson Brown	68.8802080 0.7812500 13.6718750 16.6666670
*TOTAL 24A					12.5000000		
24B MATERN	1225-R37E, N.M.P.M., SEC. 7: NE/4 SW/4 & NW/4 SE/4 (LIMITED IN DEPTH FROM BELOW A DEPTH OF 3,620' SUBSURFACE TO A DEPTH OF 4,000' SUBSURFACE)	80.00	HBP 12/17/35	Colonial Securities Co. State Street Bank & Trust Co.	4.6750000 7.8250000	Burton Vetele Chevron U.S.A. Inc Dasco Energy Corp. Larry Nermyr Meridian Mussett Meridian Oil, Inc. Para Mia, Inc.	2.0408260 0.3382910 35.5468750 20.4081550 0.4999990 0.7812500 8.6836910 13.6718750 18.3673290
*TOTAL 24B					12.5000000		
24C MATERN	1225-R37E, N.M.P.M., SEC. 7: NE/4 SW/4 & NW/4 SE/4 (LIMITED IN DEPTH FROM BELOW A DEPTH OF 4,000' SUBSURFACE TO THE BASE OF THE UTILIZED FORMATION)	80.00	HBP 12/17/35	Colonial Securities Co. State Street Bank & Trust Co.	4.6750000 7.8250000	Jack Fletcher James A. Davidson James E. Burr Larry Nermyr Ruth Sutton Sohio Petroleum Company Trust U/D Donaldson Brown	0.1171800 3.7500000 0.1171800 0.2343700 0.1171800 10.0000000 5.0000000
*TOTAL 24C					12.5000000		

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAYBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
26A (MCL-C)	1225-B37E, N.M.P.M. SEC. 18: LOTS 1, 2, 3 8/4, SE/4 NW/4 E/2 NE/4	307.96	HBP 05/06/26	A. J. Trammell Alvin Luskey Anderson Carter Annie Taylor Estate Athenia M. Hunt Atlantic Richfield Company ARCO Petroleum Products Co. B. A. Christmas, Jr. Beatrice V. Cook Betty Moran Rice Boys Club of America Bradford Ace Christmas Braille Institute of America, Inc. Buster Trammell Candy Christmas Cathie Cone Auvenshine Cecil Frank Wilson Charles F. Doornbos Revocable Trust Charles Pfele Trust Charlotte Francis Weldon Clifford Cone Conoco, Inc. Cross Timbers Oil Company, L.P. D. C. Trust Daniel Trammell Estate David Luskey Della Long Doshia Gilbert Edgar Lewis Killingsworth Elks National Foundation Elliott Oil Company Ellis Trammell Emely Ann Edwards Eunice James Gray Frank Lynn Killingsworth Geodyne Resources, Inc. George Etta Emerson Gwen G. Hall Harmon Hess, Jr. Harvey Roberts Helen Jane Christmas Barbry Hendrick Memorial Hospital Higgins Trust, Inc. Howard Payne College Ima Jo Britscope J. W. Neal James G. Bruton James R. Cravens Trust Jean Anderson Simpson Jimmie Otis Hess Joe & Jessie Crump Fund #2312 John Albert Hess John B. Whitley John H. Hendrix Corp. John Henry Killingsworth John W. Burress John W. Burress & Constance F. Burress Johnie Trammell	0.0004000 0.0589000 0.3348000 0.0052300 0.0003300 0.5329000 0.2297000 0.7906000 0.0390000 0.1674000 0.0056000 0.3162300 0.2583000 0.0004000 0.3162300 0.0111600 0.0391000 0.0496000 0.0837000 0.0093000 0.0111600 0.0558000 0.0992000 0.0111600 0.0004000 0.0589000 0.0004000 0.0093000 0.0004000 0.0004000 0.0001000 0.0979500 0.0093000 1.0044000 0.0093000 0.0093000 0.0782000 0.0003200 0.0026200 0.3162200 0.1116000 0.8929000 0.0288700 0.0003300 0.1116000 0.0418500 0.3906000 0.0001000 0.0003300 0.0558000 0.0003300 0.0032500 0.2354000 0.0093000 0.0139500 0.0158700 0.0004100	Chevron U.S.A. Inc	100.0000000 3.3757450

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAYBUNG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
26A							
				Joyce Ann Brown	1.1067000		
				Julie Hess Hoshor	0.0003300		
				Kathleen Cone Estate	0.0558000		
				Kenneth G. Cone	0.0111600		
				Kevin Hess	0.0003200		
				Kirby D. Schenck	0.1116000		
				L. O. Carroll	0.0558000		
				Lee Roberts	0.0390000		
				Leo Wyman	0.0588000		
				Lillian Myers	0.0372000		
				Lorene Jane Hess	0.0003200		
				Louis Luskey	0.0588000		
				Louise C. Summers	0.2232000		
				Lucy Mae Littrell	0.0004000		
				Maggie Roberts Wallace	0.0026200		
				Margaret Elizabeth Burns	0.0093000		
				Martha Farris	0.0004000		
				Mary Allison	0.0004000		
				Mary G. Moran Fagan Payne Basden Trust	0.1674000		
				Mary T. Christmas Holladay	0.3162200		
				Myrtle Pfile Mineral Trust	0.0083700		
				New Mexico Boys Ranch, Inc.	0.0056000		
				Norma Jean Talbert	0.0052300		
				Otis S. Hess	0.0013100		
				Otis E. Ramsey, Jr.	0.0854400		
				Otis Trammell	0.0004100		
				Oxy, U.S.A.	0.3534000		
				Patricia H. Neal	0.1116000		
				Petco Limited	0.0093000		
				Powhatan & Beverly T. Carter Rev. Trust	0.0496000		
				R. E. King Estate	0.3348000		
				R. H. Trammell	0.0558000		
				Randolph E. Wilson	0.0004100		
				Rebel Oil Company	0.0372000		
				Regents of The University of New Mexico	0.0744000		
				Robert Booth Kellogg	0.0056000		
				Robert J. Leonard	0.0093000		
				Robert L. E. Burress	0.0093000		
				Roy G. Barton, Jr.	0.0139500		
				Roy S. Magruder Trust	0.0744000		
				ROCA Properties, Ltd.	0.0279000		
				Sara H. Stovall	0.0124000		
				Savannah Hess Altman	0.0032500		
				Selma E. Andrews Trust	0.0013100		
				Shattuck St. Mary's School	0.2997000		
				Southland Royalty Company	0.0055000		
				Spindletop Exploration Co. Inc	0.4464000		
				Stephen N. James	0.0185100		
				Sue Stinson Testamentary #2046-12	0.0978500		
				The Jessie B. Crump Family Trust #1069	0.1116000		
				The John K. Cleary Trust	0.0558000		
				The Moore Trust	0.0186000		
				The Roy G. Barton, Sr. & Opal Barton Tr.	0.0744000		
				The W. A. Yeager Group	0.0558000		
				The Wilson Children Trust	0.0248000		
				The Wisner Oil Company	0.0031000		
				Thejma Black	0.5580000		
					0.0124000		

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNITIZED FORMATION FOR THE
 ARROWHEAD-GRAVBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASING STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
268							
	Howard Payne College			0.0288700			
	Ima Jo Briscoe			0.0003300			
	J. W. Neal			0.1116000			
	James G. Bruton			0.0418500			
	James R. Cravens Trust			0.3906000			
	Jean Anderson Stimpson			0.0001000			
	Jimmie Otis Hess			0.0003300			
	Joe & Jessie Crump Fund #2312			0.0558000			
	John Albert Hess			0.0003300			
	John B. Whitley			0.0032500			
	John H. Hendrix Corp.			0.2354000			
	John Henry Killingsworth			0.0093000			
	John W. Burress			0.0139500			
	John W. Burress & Constance F. Burress			0.0158700			
	Johnnie Trammell			0.0004100			
	Joyce Ann Brown			1.1067000			
	Julie Hess Hoshor			0.0003300			
	Kathleen Cone Estate			0.0558000			
	Kenneth G. Cone			0.0111600			
	Kevin Hess			0.0003200			
	Kirby D. Schenck			0.1116000			
	L. O. Carroll			0.0558000			
	Lee Roberts			0.0390000			
	Leo Witman			0.0588000			
	Lillian Myers			0.0372000			
	Lorene Jane Hess			0.0003200			
	Louis Luskey			0.0588000			
	Louise C. Summers			0.2232000			
	Lucy Mae Littrell			0.0004000			
	Maggie Roberts Wallace			0.0026200			
	Margaret Elizabeth Burns			0.0093000			
	Martha Farris			0.0004000			
	Mary Allison			0.0004000			
	Mary G. Moran Fagan Payne Basden Trust			0.1674000			
	Mary I. Christmas Holladay			0.3162200			
	Myrtle Pfile Mineral Trust			0.0083700			
	New Mexico Boys Ranch, Inc.			0.0056000			
	Norma Jean Talbert			0.0052300			
	Otis S. Hess			0.0013100			
	Otis E. Ramsey, Jr.			0.0854400			
	Otis Trammell			0.0004100			
	Oxy. U.S.A.			0.3534000			
	Patricia H. Neal			0.1116000			
	Patrick J. Leonard			0.0093000			
	Petco Limited			0.0496000			
	Powhatan & Beverly T. Carter Rev. Trust			0.3348000			
	R. E. King Estate			0.0558000			
	R. H. Trammell			0.0004100			
	Randolph E. Wilson			0.0372000			
	Rebel Oil Company			0.0744000			
	Regents of The University of New Mexico			0.0056000			
	Robert Booth Kellough			0.0093000			
	Robert J. Leonard			0.0093000			
	Robert L. E. Burress			0.0139500			
	Roy G. Barton, Jr.			0.0744000			
	Roy S. Magruder Trust			0.0279000			
	ROCA Properties, Ltd.			0.0124000			
	Sara H. Stevaji			0.0032500			

EXHIBIT 'B'
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 IN ACCORDANCE WITH THE PARTICIPATION FORMULA FOR THE UNLITZED FORMATION FOR THE
 ARROWHEAD-GRAVBURG UNIT AREA -
 LEA COUNTY, NEW MEXICO

MAY 14, 1991

PATENTED LANDS

TRACT NO. AND TRACT NAME	DESCRIPTION OF LAND	ACRES	LEASE STATUS	BASIC ROYALTY OWNER AND PERCENTAGE	OVERRIDING ROYALTY OWNER AND PERCENTAGE	WORKING INTEREST OWNER AND PERCENTAGE	PARTICIPATION OF TRACT IN UNIT
268				Savannah Hess Altman	0.0013100		
				Selma E. Andrews Trust	0.2997000		
				Shattuck St. Mary's School	0.0055000		
				Southland Royalty Company	0.4464000		
				Spindletop Exploration Co. Inc	0.0185100		
				Stephen N. James	0.0978500		
				Sue Stinson Testamentary #2046-12	0.1116000		
				The Jessie B. Crump Family Trust #1069	0.0558000		
				The John K. Cleary Trust	0.0186000		
				The Moore Trust	0.0744000		
				The Roy G. Barton, Sr. & Opal Barton Tr.	0.0558000		
				The W. A. Yeager Group	0.0248000		
				The Wilson Children Trust	0.0031000		
				The Miser Oil Company	0.5580000		
				Thelma Black	0.0124000		
				Timothy T. Leonard	0.0093000		
				Tom R. Cone	0.0111600		
				Tom W. Ellison	0.0314000		
				Trinity Properties II	0.0124000		
				Trio Petroleum Corporation	0.0059000		
				Velma B. Moody	0.0004000		
				Virginia Bruton	0.0334800		
				William A. Kottiker	0.0279000		
				William G. Seal & Marcellyn J. Seal	0.0001000		
				William W. Burress	0.0139500		
				Wynant S. Wilson	0.0372000		
					12.5000000		

*TOTAL 268

* 100% WI as to Dry Gas Only
 ** 14.28572 ORR as to Dry Gas Only



Chevron U.S.A. Inc.

P.O. Box 1150, Midland, TX 79702 • Phone (915) 687-7235

15 Smith Road, Midland, TX 79705 • Fax (915) 687-7666

OIL CONSERVATION DIVISION

91 MAY 13 AM 9 38

Denise K. Beckham
Land Representative
Permian Basin Land Division

May 10, 1991

ARROWHEAD GRAYBURG UNIT
LEA COUNTY, NEW MEXICO

State of New Mexico
Attn: William J. LeMay
Oil Conservation Division
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

Gentlemen:

Attached please find one originally executed and one copy of the Unit Agreement and Unit Operating Agreement for the Arrowhead Grayburg Unit. This is in addition to the information we previously sent you regarding our request for June 1, 1991 as an effective date for the Arrowhead Grayburg Unit. Please be advised we have updated the Exhibit "B" to the Unit Agreement also.

Should you have any questions or need further information, please contact me at (915)687-7235.

Yours very truly,

Denise K. Beckham

dkb/DH

AGU0012.DKB

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 29th day of January, 1991.

ESTATE OF KATHLEEN CONE

By: Leon Binkley Leon Binkley, Personal Representative

By: Donna L. Frost Donna Frost, Personal Representative
Estate of Kathleen Cone

P.O. Box 1509
Lovington, New Mexico 88260

THE STATE OF NEW MEX. §

COUNTY OF LEA §

The foregoing instrument was acknowledged before me this 29th day of January, 1991, by Leon Binkley, Personal Representative.

My Commission Expires:

December 18, 1992

Colleen Kimbrell
A Notary Public in the

State of New Mexico

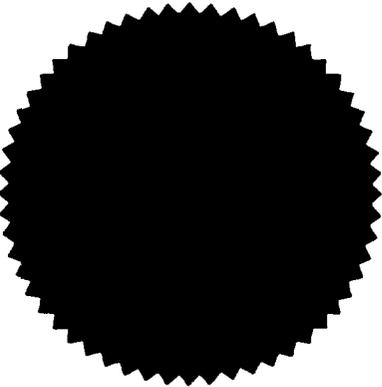
County of Lea

NOTARIAL CERTIFICATE

TO ALL TO WHOM THESE PRESENTS SHALL COME:

I, F. Chesley White, of the City of Hamilton in the Islands of Bermuda, a Notary Public, duly authorised, admitted and sworn, practicing at the City of Hamilton in the Islands of Bermuda aforesaid, DO HEREBY CERTIFY that the signature appearing in the Ratification and Joinder of Unit Agreement for the Arrowhead Grayburg Unit dated 29th January, 1991 is the signature and handwriting of Donna L. Frost.

IN TESTIMONY WHEREOF I, the said Notary Public, have hereto set my hand and official Notarial Seal this 4th day of February, 1991.



F. Chesley White

F. CHESLEY WHITE
NOTARY PUBLIC
41 CEDAR AVENUE,
HAMILTON
BERMUDA

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 21 day of JANUARY, 1991.

A. J. Trammell
A. J. Trammell

Rt. 13, 312 Clay St.
Birmingham, Missouri 64161

THE STATE OF Missouri
COUNTY OF JACKSON §

The foregoing instrument was acknowledged before me this
21st day of JANUARY, 1991, by
A. J. TRAMMELL.

My Commission Expires:
12-15-91

Leanne M. Swader-Babbler
& Notary Public in the

State of Missouri
County of JACKSON

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18 day of January, 1991.

[Signature]

Alvin Luskey

101 N. Houston Street
Fort Worth, Texas 76102

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 18 day of January, 1991, by Alvin Luskey.

My Commission Expires:
12-9-94

[Signature: Kay E. Kerr]
A Notary Public in the
State of Texas
County of Tarrant

KAY E. KERR, Notary
In and for the State of Texas
My Commission Expires 12-9-94

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18th day of January, 1991.

Annie Taylor Estate

By: Thelma Taylor, Executrix
Thelma Taylor, Executrix

c/o John F. Geister, Jr.
1046 Donaghey Building
Little Rock, Arkansas 72201

THE STATE OF § Arkansas
COUNTY OF § Pulaski

The foregoing instrument was acknowledged before me this 18th day of January, 1991, by Thelma Taylor as Executrix on behalf of Annie Taylor Estate.

My Commission Expires:

May 1, 2006.

[Signature]
A Notary Public JOHN F. GEISTER Jr.

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19th day of FEB., 1991.

[Signature]
L. O. Carroll, EXECUTOR

1216 Country Club Drive
Norman, Oklahoma 73069

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 19th day of FEBRUARY, 1991, by L. O. CARROLL.

My Commission Expires:

June 20, 2000

[Signature]
A Notary Public in the

State of A.C.

County of SPARTANBURG SC

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23rd day of January, 1991.

Leo Wiman
Leo Wiman

P.O. Box 12073
Dallas, Texas 75225

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 23rd day of January, 1991, by Leo Wiman.

My Commission Expires:

3-23-92

Marlene B. Campbell
A Notary Public in the

State of TEXAS

County of DALLAS



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 22nd day of JANUARY, 1991.

x Lillian Myers

Lillian Myers

10232 Regal Oaks Apt. C
Dallas, Texas 75230

THE STATE OF § TEXAS
COUNTY OF § DALLAS

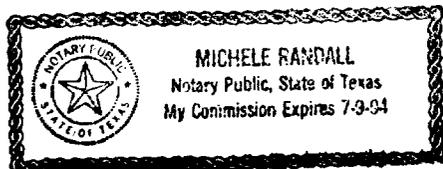
The foregoing instrument was acknowledged before me this 19th day of MARCH, 1991, by Lillian Myers.

My Commission Expires:

7-9-94

Michele Randall
A Notary Public in the

State of TEXAS
County of DALLAS



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 4th day of February, 1991.

Beatrice V. Cook

Beatrice V. Cook

P.O. Box 1076
Roswell, New Mexico 88202

THE STATE OF N.M. §
COUNTY OF Chaves §

The foregoing instrument was acknowledged before me this 4th day of February, 1991, by Beatrice V. Cook.

My Commission Expires:



Cynthia Torrez
A Notary Public in the
State of New Mexico
County of Chaves

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 6th day of March, 19 91.

B. A. Christmas, Jr.
B. A. Christmas, Jr.

Chico Route
Raton, New Mexico 87740

THE STATE OF § NEW MEXICO

COUNTY OF § COLFAX

The foregoing instrument was acknowledged before me this
6th day of March, 19 91, by
B. A. Christmas, Jr.

My Commission Expires:

6-10-93

Carolee A Jones
A Notary Public in the

State of NEW MEXICO

County of COLFAX

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19 day of March, 1991.

Jimmy D. Morey Revocable Trust dated
February 22, 1989

BY: Jimmy D. Morey
Jimmy D. Morey, Trustee

BY: Mary M. Morey
Mary M. Morey, Trustee

1502 Buttram Road
Oklahoma City, Oklahoma 73120

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 19 day of March, 1991, by Jimmy D. Morey and Mary M. Morey as Trustees on behalf of Jimmy D. Morey Revocable Trust.

My Commission Expires:

My Commission Expires 6-30-1992

Fred M. Hake
A Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 1 day of March, 1991.

Marilyn M. Law Revocable Trust
dated February 3, 1989

By: Marilyn M. Law
Marilyn M. Law, Trustee

By: James B. Law
James B. Law, Trustee

P.O. Box 20628
Oklahoma City, OK 73156-0628

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 1st day of March, 1991, by Marilyn M. Law and Jimmy B. Law as Trustees on behalf of Marilyn M. Law Revocable Trust.

My Commission Expires:
9-24-94

Christina L Moore
A Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5th day of March, 1991.

Virginia L. Bruton

Virginia L. Bruton, Individually and as Co-Trustee for the Myrtle Pfile Mineral Trust

% Portland Properties
2021 Lloyd Center
Portland, OR 97232

By:

James G. Bruton

James G. Bruton, Individually and as Co-Trustee for the Myrtle Pfile Mineral Trust

~~1607 Indian Terrace~~
~~Duncan, OK 73533~~

P.O. Box 218
Waurika, OK 73573

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 5th day of March, 1991, by James G. Bruton, Individually and as Co-Trustee on behalf of the Myrtle Pfile Mineral Trust.

My Commission Expires:

01/14/92

Dee Houten
A Notary Public

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 2th day of March, 1991, by Virginia L. Bruton, Individually and as Co-Trustee on behalf of the Myrtle Pfile Mineral Trust.

My Commission Expires:

9/3/91

Deane R. Grimes
A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25th day of March, 1991.

Horace W. Butts
Horace W. Butts

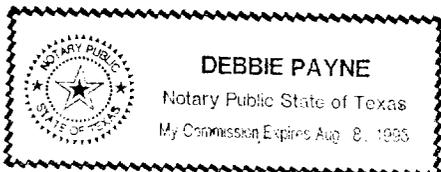
4912 Emerald Lake
Ft. Worth, Texas 76103

THE STATE OF TEXAS §
COUNTY OF TARRANT §

The foregoing instrument was acknowledged before me this 25th day of March, 1991, by
Horace W. Butts

My Commission Expires:
8/8/93

Debbie Payne
A Notary Public in the
State of TEXAS
County of TARRANT



Individual Royalty Joinder

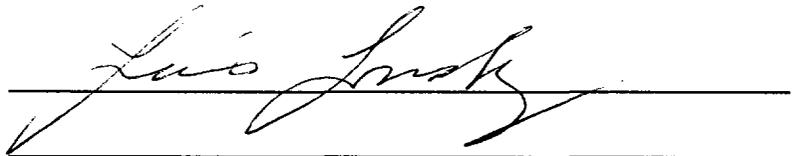
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15TH day of JANUARY, 1991.



Louis Luskey

101 N. Houston St.
Fort Worth, Texas 76102

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 15th day of January, 1991, by Louis Luskey.

My Commission Expires:

12-9-94



A Notary Public in the

State of Texas

County of Tarrant

My Commission Expires: 12-9-94

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17 day of January, 1991.

Louise B. Diggles

Louise B. Diggles

10123 Greentree Street
Houston, Texas 77042-1229

THE STATE OF §
COUNTY OF §



The foregoing instrument was acknowledged before me this 17th day of January, 1991, by Louise B. Diggles.

My Commission Expires:

February 20 1994

Marletha M. Jackson
A Notary Public in the

State of Texas
County of Harris

Individual Royalty Joinder

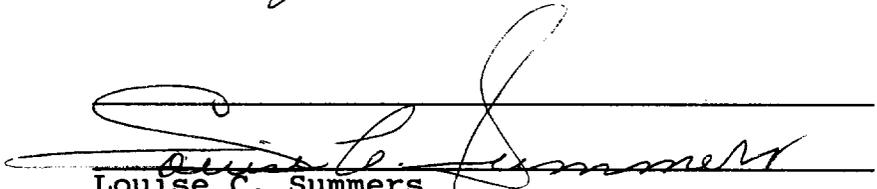
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15 day of January, 1991.



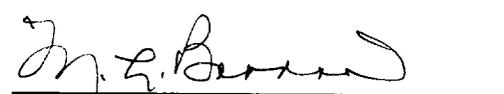
Louise C. Summers

P.O. Box 776
Hobbs, New Mexico 88240

THE STATE OF § New Mexico
COUNTY OF § Lea

The foregoing instrument was acknowledged before me this 15 day of January, 1991, by Louise C. Summers.

My Commission Expires:
2-17-93



A Notary Public in the
State of New Mexico
County of Lea

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of January, 1991.

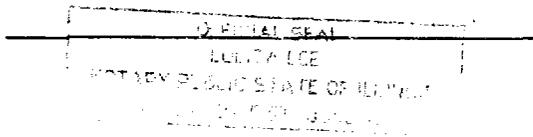
Lucinda Loveless
Lucinda Loveless

419 West Wellington, #1
Chicago, Illinois 60657-5803

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 15th day of Jan, 1991, by Lucinda Loveless.

My Commission Expires:



Michael J. [Signature]
A Notary Public in the
State of IL
County of Cook

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of JANUARY, 1991.

Main Street Holding Co.

By: [Signature]
Title: [Signature]

P.O. Box 381
Shawnee Mission, Kansas 66201

THE STATE OF Kansas §
COUNTY OF Johnson §

The foregoing instrument was acknowledged before me this 23 day of JANUARY, 1991, by CHARLES E. HASKELL JR. PRES., for/of MAIN STREET HOLDING CO., a Missouri corporation, on behalf of said corporation.

My Commission Expires:
9-5-94

[Signature]
A Notary Public

WLD01214.04/mc R 129

SHARON L. JONES
Notary Public - State of Kansas
My Appt. Expires: 9-5-94

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17 day of January, 1991.

Margaret Elizabeth Burns
Margaret Elizabeth Burns

3113 NW 60th Street
Oklahoma City, Oklahoma 73112

THE STATE OF § OKLAHOMA
COUNTY OF § OKLAHOMA

The foregoing instrument was acknowledged before me this 17th day of January, 1991, by Margaret Elizabeth Burns

My Commission Expires:
March 21, 1992

Cecil Paterson
A Notary Public in the
State of Oklahoma
County of Oklahoma

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

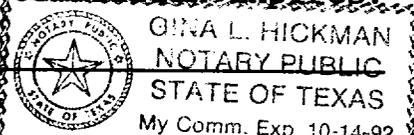
EXECUTED this 16th day of January, 1991.

ATTEST: [Signature] Marshall & Winston, Inc.
By: [Signature] By: [Signature]
Robert H. Ritchie William S. Marshall
Secretary-Treasurer Title: President

P.O. Box 50880
Midland, Texas 79710-0880

THE STATE OF TEXAS §
COUNTY OF MIDLAND §

The foregoing instrument was acknowledged before me this
16th day of January, 1991, by
William S. Marshall, ~~for~~ of Marshall & Winston, Inc.
Nevada, a Nevada
corporation, on behalf of said corporation.

My Commission Expires:

GINA L. HICKMAN
NOTARY PUBLIC
STATE OF TEXAS
My Comm. Exp. 10-14-92
WLD01214.04/MC R-132

[Signature]
A Notary Public
State of Texas

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 6 day of March, 1991.

Rebecca Fretwell

Rebecca Fretwell

Lakewood Christian Manor
2141 Springdale Road, S. W.
Apt. 708
Atlanta, Georgia 30315

THE STATE OF Georgia §
COUNTY OF Fulton §

The foregoing instrument was acknowledged before me this 6th day of March, 1991, by Rebecca Fretwell.

My Commission Expires:
Notary Public, Georgia, State at Large.
My Commission Expires March 12, 1991

Deluan M. Salinas
A Notary Public in the
State of Ga.
County of Fulton

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 12 day of March, 1991.

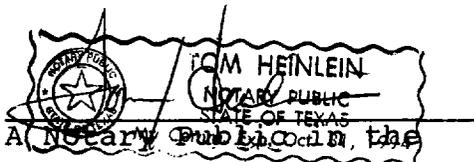
Martha Ainsworth
Martha Ainsworth

Box 452
Salt Flat, Texas 79847

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 12 day of MARCH, 1991, by Martha Ainsworth.

My Commission Expires:
Oct 31, 1994



State of TEXAS
County of EL PASO

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 28 day of FEBRUARY, 1991.

William (Bill) D. Terry
Bill Terry

3100 Mandell Circle
Clovis, New Mexico 88101

THE STATE OF § New Mexico
COUNTY OF § Curry

The foregoing instrument was acknowledged before me this 28th day of February, 1991, by Bill Terry.

My Commission Expires:
July 10, 1993

Lena M. Griffin
A Notary Public in the
State of New Mexico
County of Curry

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 4 day of March, 1991.

Winnie Williams
Winnie Williams

P. O. Box 16129
Lubbock, Texas 79490

THE STATE OF Texas §
COUNTY OF Lubbock §

The foregoing instrument was acknowledged before me this 4 day of March, 1991, by Winnie Williams.

My Commission Expires:
9-30-92

Kathryn Taylor
A Notary Public in the
State of Texas
County of Lubbock

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 12 day of March, 1991.

Allie Wilkinson
Allie Wilkinson

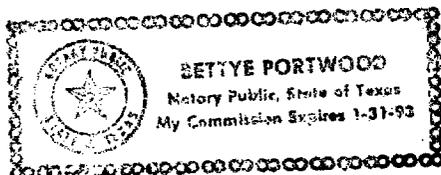
3715 95th Street
Lubbock, Texas 79423

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 12 day of March, 1991, by Allie Wilkinson.

My Commission Expires:
01-31-93

Bettye Portwood
A Notary Public in the
State of Texas
County of Lubbock



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 11 day of March, 1991.

E. D. Osburn
E. D. Osburn

110 North Avenue O
Post, Texas 79356

THE STATE OF Leas S
COUNTY OF Garza S

The foregoing instrument was acknowledged before me this 11 day of March, 1991, by E. D. Osburn.

My Commission Expires:
1-31-93

Marilyn Rousseau
A Notary Public in the
State of Leas
County of Garza

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 27 day of March, 1991.

Lonelle Holder
Lonelle Holder

110 North Avenue O
Post, Texas 79356

THE STATE OF Texas
COUNTY OF Garza

The foregoing instrument was acknowledged before me this 27 day of March, 1991, by Lonelle Holder.

My Commission Expires:
1-31-93

Margie Penner
A Notary Public in the
State of Texas
County of Garza

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18th day of March, 1991.



Joe Dan Beach

Beachs Thunderbird Farm
P. O. Box 1806
Cross City, Florida 32628

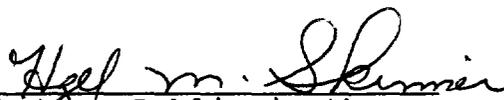
THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 18th day of March, 1991, by Joe Dan Beach.

My Commission Expires:

NOTARY PUBLIC, STATE OF FLORIDA
My commission expires Aug. 4, 1993


A Notary Public in the
State of Florida
County of Dixie

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5th day of March, 1991.

Marie McKinnon
Marie McKinnon

807 Warm Sands Court, S.E.
Albuquerque, New Mexico 87123

THE STATE OF NEW MEXICO §
COUNTY OF BERNALILLO §

The foregoing instrument was acknowledged before me this Marie McKinnon day of March 5, 1991, by Marie McKinnon.

My Commission Expires:
2-27-94

Gracey Martin
A Notary Public in the
State of New Mexico
County of Bernalillo

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5 day of MARCH, 1991.

Billie Schroder
Billie Schroder

805 Warm Sands Court, S.E.
Albuquerque, New Mexico 87123

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 5th day of March, 1991, by Billie Schroder.

My Commission Expires:

1/24/95



OFFICIAL SEAL
BETTY A. BAUDER
NOTARY PUBLIC-STATE OF NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires 1/24/95

Betty A. Bauder
A Notary Public in the
State of New Mexico
County of Bernalillo

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25th day of March, 1991.

Oliver J. Butts, Jr.

Oliver J. Butts, Jr.

4422 Harlanwood #201
Ft. Worth, Texas 76109

THE STATE OF TEXAS §

COUNTY OF TARRANT §

The foregoing instrument was acknowledged before me this 25th day of March, 1991, by Oliver J. Butts, Jr.

My Commission Expires:

8-24-94

Angelita Chauven
A Notary Public in the
State of Texas
County of Tarrant

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 13 day of March, 1991

Alafair Butler
Alafair Butler

2013 Claude Street, N.W.
Atlanta, Georgia 30318

THE STATE OF s Georgia
COUNTY OF s DeKalb

The foregoing instrument was acknowledged before me this 13~~th~~ day of March, 1991, by Alafair Butler.

My Commission Expires:
Notary Public, Cobb County, Georgia
My Commission Expires July 19, 1993

Barbara Goodlett
A Notary Public in the
State of Georgia
County of Cobb

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 28 day of March, 1991.

Marie Shaw

Marie Shaw

Rt. 2 Box 490-1
Killen, Alabama 35645

THE STATE OF Al §
COUNTY OF Land §

The foregoing instrument was acknowledged before me this 28 day of March, 1991, by Marie Shaw.

My Commission Expires:

MY COMMISSION EXPIRES 5-8-93

Sandra Little
A Notary Public in the

State of Al

County of Land

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18th day of February, 1991.



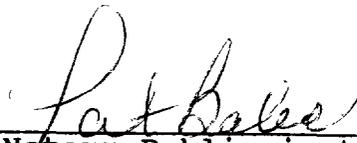
Mack H. Woolridge

P. O. Box 1846
Albany, Texas 74630

THE STATE OF TEXAS §
COUNTY OF SHACKELFORD §

The foregoing instrument was acknowledged before me this 18th day of February, 1991, by MACK H. WOOLDRIDGE.

My Commission Expires:
November 3, 1991

 Pat Bales
A Notary Public in the
State of Texas
County of Shackelford

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 12th day of March, 1991.

Franklin Energy, Partnership

By: Steven A. Roitman

Title: Steven A. Roitman, General Partner

By: _____

Title: _____

1616 Glenarm Place, Suite 1820
Denver, Colorado 80202

STATE OF § Colorado

COUNTY OF § Denver

BEFORE ME, the undersigned authority, on this day personally appeared Steven A. Roitman and _____, known to me to be the persons and partners whose names are subscribed to the foregoing instrument, and acknowledged to me that they executed the same as the act of Franklin Energy, a partnership of which they are partners, for the purposes and consideration expressed and in the capacities stated therein, and that they were authorized to do so.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 12th day of March, 1991.

My Commission Expires: 8/9/94

Patricia A. Blain
A Notary Public in and for

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of January, 1991.

Witnesses:

Sue Abbe
Sue Abbe

Kay L. Brooks
Kay L. Brooks

Charles F. Doornbos, Trustee of the
Charles F. Doornbos Revocable Trust
~~Harris Trust & Savings Bank, Trustee~~

By: [Signature]

Title: Trustee

P. O. Box ~~2304~~ 639
Bartlesville, Oklahoma 74005
Bartlesville

ACKNOWLEDGMENT FOR INDIVIDUAL

STATE OF OKLAHOMA)
)
COUNTY OF WASHINGTON)

Before me, the undersigned, a Notary Public, in and for said County and State, on this 16th day of January, 1991, personally appeared Charles F. Doornbos, Trustee of the Charles F. Doornbos Revocable Trust under Trust Agreement dated August 1, 1990, personally known to me to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his free and voluntary act and deed, for the uses and purposes therein set forth, as Trustee.

IN WITNESS WHEREOF, I have hereunto set my official signature and affixed my official seal the day and year first above written.

Kathy M. Ruckman
Notary Public
Kathy M. Ruckman

My Commission expires March 15, 1994.

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

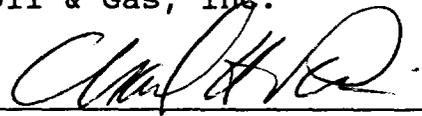
This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 26th day of February, 1991.

Hawkins Oil & Gas, Inc.

By:



Title: Charles H. Perrin
Vice President-Land

400 S. Boston - Ste. 800
Tulsa, Oklahoma 74103

ON BEHALF OF:

DOMINION RESERVES, INC.
HAWKINS OIL & GAS, INC.
HAWKINS ACQUISITIONS LIMITED PARTNERSHIP I
HAWKINS ACQUISITIONS LIMITED PARTNERSHIP II

THE STATE OF OKLAHOMA §

COUNTY OF TULSA §

The foregoing instrument was acknowledged before me this 26th day of February, 1991, by Charles H. Perrin, Vice President-Land, for/of Hawkins Oil & Gas, Inc., an Oklahoma Corporation corporation, on behalf of said corporation.

My Commission Expires:
April 22, 1991


A Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 10th day of April, 1991.

NEW MEXICO BAPTIST FOUNDATION, Trustee for
New Mexico Baptist Childrens Home, Inc.

By: B. Lee Black
Title: President

P. O. Box 485
Albuquerque, NM 87103

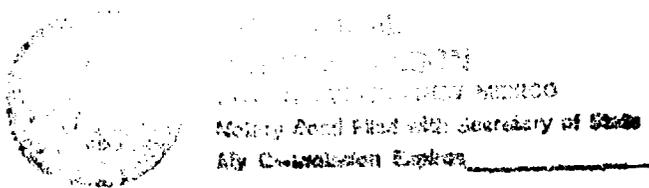
THE STATE OF NEW MEXICO

COUNTY OF BERNALILLO

The foregoing instrument was acknowledged before me this 10th day of April, 1991, by B. Lee Black, President, New Mexico Baptist Foundation, Trustee for New Mexico Baptist Childrens Home Inc., a New Mexico corporation, on behalf of said corporation.

My commission expires:
3/20/95

Betty J. Wilson
A Notary Public



RATIFICATION AND JOINDER OF UNIT AGREEMENT FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18th day of April, 1991.

Witness:

[Signature]

Deborah Lyeth Master, Co-Trustee

First Interstate Bank of Denver, N.A., Co-Trustee for the Lyeth Oil Trust

ATTEST:

[Signature]

Terry L. Oliver Assistant Cashier

Hal R. Wofford, Vice President & Trust Officer

Attn: Trust Minerals 023 P. O. Box 5825 Denver, Colorado 80217

First Interstate Bank of Denver, N.A. and Deborah Lyeth Master execute the foregoing instrument solely in their capacity as Co-Trustees for the Lyeth Oil Trust and not in their individual or corporate capacities, make no warranties of title either express or implied, and any liability asserted against them because of their execution of this instrument shall be satisfied solely from assets held by them as such Co-Trustees.

STATE OF MICHIGAN) COUNTY OF Oakland) ss.

The foregoing instrument was acknowledged before me this 18th day of April, 1991, by Deborah Lyeth Master.

My Commission expires: 1-25-95

Maria C. Costanza Notary Public Address: 771 Colonial Birmingham, MI 48009

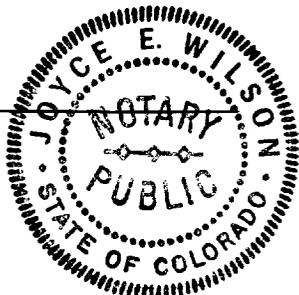
MARIA C. COSTANZA NOTARY PUBLIC - OAKLAND COUNTY, MICH. MY COMMISSION EXPIRES 1-25-95

State of Colorado) City and County of Denver) ss.

On this 23rd day of April, 1991 before me personally appeared Hal R. Wofford to me personally known, who, being by me duly sworn, did say that he/she is the Vice President and Trust Officer of First Interstate Bank of Denver, N.A., and that the seal affixed to said instrument is the Bank seal of said national association and that said instrument was signed and sealed in behalf of said national association by authority of its Board of Directors, and said Hal R. Wofford acknowledge, said instrument to be the free act and deed of said corporation.

WITNESS MY HAND and seal this 23rd day of April, 1991

My commission expires: March 26, 1992



Joyce E. Wilson Notary Public Address: 633 - 17th St., 9N Denver, Colorado 80202

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25th day of March, 1991.

The Liberty National Bank & Trust Company
of Oklahoma City, Co-Trustee under
Testamentary Trust dated March 28, 1977
U/W/O Onez Norman Rooney

Attest:

Donald Jackson By:
ASSISTANT SECRETARY

[Signature]
Title: VICE PRESIDENT

James M. Morey, Co-Trustee
James M. Morey, Co-Trustee under
Testamentary Trust dated March 28, 1977
U/W/O Onez Norman Rooney

The Liberty National Bank & Trust Company
of Oklahoma City, Co-Trustee Attn: 3074
P. O. Box 25848
Oklahoma City, OK 73125

THE STATE OF OK §
COUNTY OF Oklahoma §

The foregoing instrument was acknowledged before me this 25th day of March, 1991, by Chris Buck as Vice President for Liberty National Bank & Trust Company of Oklahoma City and James M. Morey, as Co-Trustees on behalf of the Testamentary Trust dated March 28, 1977 U/W/O Onez Norman Rooney.

My Commission Expires:
4-16-94

[Signature]
A Notary Public in the
State of Oklahoma
County of Oklahoma

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19 day of Feb, 1991.

Ross L. Robinson
Ross L. Robinson

P. O. Box 347
Eunice, NM 88231

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 19th day of February, 1991, by Ross L. Robinson

My Commission Expires:
Oct 7, 1992

Harriet Reed
A Notary Public in the
State of N.M.
County of Lea

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 6th day of March, 1991.

Ellen Anne Wallace Williams
Ellen Anne Wallace Williams

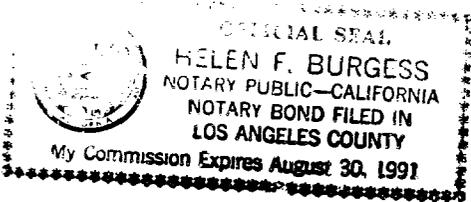
1801 Crestmont Court
Glendale, CA 91208

THE STATE OF Calif S
COUNTY OF Los Angeles

The foregoing instrument was acknowledged before me this 6th day of March, 1991, by Ellen Anne Wallace Williams.

My Commission Expires:
8-30-91

Helen F. Burgess
A Notary Public in the
State of Calif
County of Los Angeles



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 14 day of MARCH, 1991.

Edwin L. Bedford, Trustee
Edwin L. Bedford, Trustee
Helen Learmont Bedford

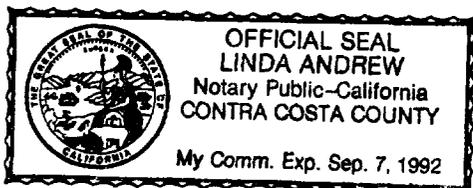
C/O Edwin L. Bedford
P. O. Box 275
Point Richmond, CA 94807-0275

THE STATE OF CALIFORNIA §
COUNTY OF CONTRA COSTA §

The foregoing instrument was acknowledged before me this 14th day of MARCH, 1991, by LINDA ANDREW.

My Commission Expires:
9-7-92

Linda Andrew
A Notary Public in the
State of CALIFORNIA
County of CONTRA COSTA



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 1st day of March, 1991.

Elizabeth B. Butler, Executor for Estate of
Rachel Bedford Bowen

Rachel Bedford Bowen

c/o Mrs. Fred Butler
6240 Riverside Ave.
Riverside, CA 92506

THE STATE OF CALIFORNIA
COUNTY OF RIVERSIDE

The foregoing instrument was acknowledged before me this 1st day of March, 1991, by ELISABETH B. BUTLER.

My Commission Expires:
12-28-93

Angela R Stone

A Notary Public in the
State of CALIFORNIA
County of RIVERSIDE



RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 20 day of Feb, 1991.

Lavenia Smith Perry

~~LAVENIA~~ Smith Abrahams
LAVENIA PERRY

2517 FALCON DR.
~~1904 Lime Rock~~
Round Rock, TX 78664-81

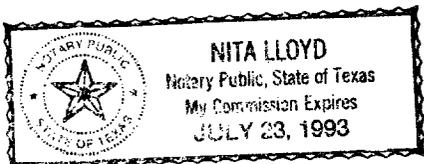
THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 20th day of February, 1991, by LAVENIA Smith PERRY.

My Commission Expires:

Nita Lloyd
A Notary Public in the

State of _____
County of _____



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 11th day of March, 1991.

Nancy Smith Hurd
Nancy Smith Hurd

112 E. PECAN, SUITE 2626
San Antonio, TX 78205

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 11th day of March, 1991, by NANCY SMITH HURD.

My Commission Expires:

5/12/92

Jennifer G. Stephens
A Notary Public in the
State of TEXAS

County of BEXAR



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 8 day of March, 1991.

L. Richard Smith, Jr.
L. Richard Smith, Jr.

115 Gatewood
San Antonio, Texas 78209

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 8th day of March, 1991, by L. Richard Smith, Jr.

My Commission Expires:
July 13, 1991

Darlene Robison
A Notary Public in the
State of Texas
County of Bexar

DARLENE ROBISON
Notary Public, Bexar County, Texas

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5th day of March, 1991.

Mildred Buchanan

Mildred Buchanan

Box 387
Strawn, Texas 76475

THE STATE OF Texas §

COUNTY OF Palo Pinto §

The foregoing instrument was acknowledged before me this 5th day of March, 1991, by Mildred Buchanan.

My Commission Expires:

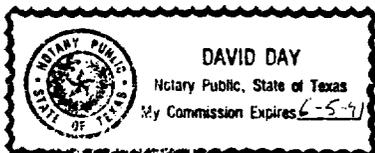
6/5/91

David Day

A Notary Public in the

State of Texas

County of Palo Pinto



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5 day of March, 1991.



J.W. Neal

Box 278
Hobbs, New Mexico 88240

THE STATE OF NM §

COUNTY OF LEA §

The foregoing instrument was acknowledged before me this 5th day of March, 1991, by J. W. Neal.

My Commission Expires:

3/24/94


A Notary Public in the

State of New Mexico

County of Lea

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5 day of March, 1991.

Patricia H. Neal

Patricia H. Neal

c/o Neal and Neal
Box 278
Hobbs, N.M. 88240

THE STATE OF NM §

COUNTY OF LEA §

The foregoing instrument was acknowledged before me this 5th day of March, 1991, by Patricia H. Neal.

My Commission Expires:
8/24/94

Les Castlemore
A Notary Public in the
State of New Mexico
County of Lea

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of January, 1991.

State Street Bank & Trust Co.

By: *J. Barnhill*

Title: Cashier

801 State Street
Quincy, Illinois 62301

THE STATE OF ILLINOIS
COUNTY OF ADAMS §

The foregoing instrument was acknowledged before me this 15th day of January, 1991, by Judy A. Barnhill, Cashier, for/of State Street Bank & Trust Company, a n Illinois corporation, on behalf of said corporation.

My Commission Expires:
12-14-92

J. M. Dix
A Notary Public



Individual Royalty Joinder

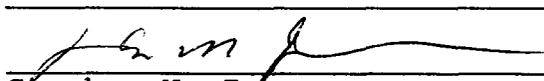
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17 day of January, 1991.



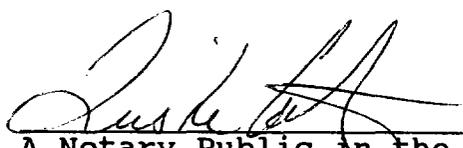
Stephen N. James

5405 Scout Island Circle South
Austin, Texas 78731

THE STATE OF §
Texas
COUNTY OF §
Travis

The foregoing instrument was acknowledged before me this
17th day of January, 1991, by
Stephen N. James.

My Commission Expires:
9-27-93



A Notary Public in the
Trishe Cortez
State of Texas
County of Travis

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19th day of January, 1991.

Sue Saunders Graham

Sue Saunders Graham

P.O. Box ~~987~~ 987
Roswell, New Mexico 88201 ~~88207~~

THE STATE OF New Mexico §
COUNTY OF Chaves §

The foregoing instrument was acknowledged before me this 19th day of January, 1991, by Sue Saunders GRAHAM.

My Commission Expires:
Aug 31, 1991

Margaret G. Sanders
A Notary Public in the
State of New Mexico
County of Chaves

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 1st day of February, 1991.

SUN OPERATING LIMITED PARTNERSHIP
BY ORYX ENERGY COMPANY, ITS
MANAGING GENERAL PARTNER

By: Frank J. McCallach

Title: Attorney-in-Fact

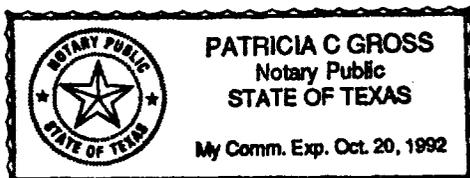
P.O. Box 2880
Dallas, Texas 75221

THE STATE OF Texas §
COUNTY OF Dallas §

The foregoing instrument was acknowledged before me this 1st day of February, 1991, by Frank J. McCallach as Attorney-in-Fact on behalf of Oryx Energy Company, Managing General Partner of Sun Operating Limited Partnership.

My Commission Expires:

Patricia C. Gross
A Notary Public



RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 6th day of MARCH, 1991.

The Home Stake Royalty Corporation

By: [Signature]

Title: [Signature]

15 East Fifth Street
Tulsa, Oklahoma 74103

THE STATE OF OKLAHOMA

COUNTY OF TULSA

The foregoing instrument was acknowledged before me this 6th day of MARCH, 1991, by HARRY V. TUCEI, for/of THE HOME-STAKE ROYALTY CORPORATION, a N OKLAHOMA corporation, on behalf of said corporation.

My Commission Expires:
7/31/93

[Signature]
A Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 11 day of Jan, 1991.

The Roy G. Barton, Sr. and Opal Barton Revocable Trust

By: [Signature]
Roy G. Barton, Jr., Trustee

Roy G. Barton, Jr.
P. O. Box 978
Hobbs, New Mexico 88240

THE STATE OF § NEW MEXICO
COUNTY OF § LEA

The foregoing instrument was acknowledged before me this 11th day of January, 1991, by Roy G. Barton, Jr. as Trustee on behalf of the Roy G. Barton, Sr & Opal Barton Revocable Trust.

My Commission Expires:

1-14-93

[Signature]
A Notary Public

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17th day of January, 1991.

The W. A. Yeager Group

By: Wilbur A. Yeager, Jr.

Title: One of its Partners

P.O. Box 990
Midland, Texas 79702

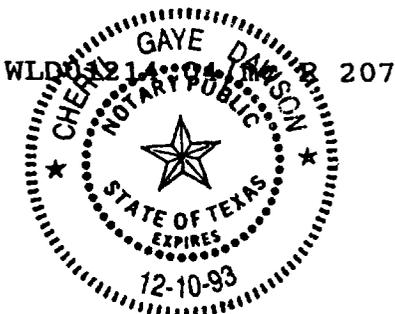
THE STATE OF TEXAS §

COUNTY OF MIDLAND §

The foregoing instrument was acknowledged before me this 17th day of January, 1991, by WILBUR A. YEAGER, JR., for/of THE W. A. YEAGER GROUP, a partnership ~~corporation~~ on behalf of said ~~corporation~~ partnership.

My Commission Expires:

Cheryl Gaye Dawson
A Notary Public



Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 2nd day of April, 1991.

The Wisser Oil Company

By: *John C. Wright*
John C. Wright
Title: President

Dept. L 454-P
Pittsburgh, Pennsylvania 15264-0454

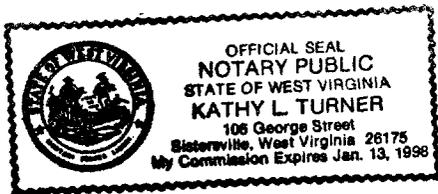
THE STATE OF WV §
COUNTY OF TYLER §

The foregoing instrument was acknowledged before me this 2nd day of April, 1991, by John C. Wright, for/of THE WISSER OIL COMPANY, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
January 13, 1998

Kathy L. Turner
A Notary Public

WLD01214.04/mc R 209



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of January, 1991.

Thelma Black
Thelma Black

P.O. Box 205
Midland, Texas 79701

THE STATE OF Texas §
COUNTY OF Midland §

The foregoing instrument was acknowledged before me this 23rd day of January, 1991, by Thelma Black.

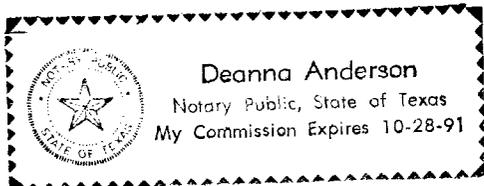
My Commission Expires:

Deanna Anderson

A Notary Public in the

State of Texas

County of Midland



Individual Royalty Joinder

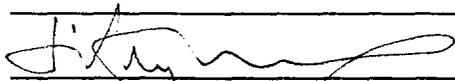
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of January, 1991.



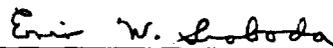
Timothy T. Leonard

P.O. Box 6006
San Antonio, Texas 78209

THE STATE OF Texas §
COUNTY OF Bexar §

The foregoing instrument was acknowledged before me this
16th day of January, 1991, by
Timothy T. Leonard.

My Commission Expires:
March 31, 1993



A Notary Public in the
State of Texas
County of Bexar
Ervin W. Svoboda

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 13 day of Feb, 1991.

Tom R. Cone
Tom R. Cone

P.O. Box 778
Jay, Oklahoma 74346

THE STATE OF OKLAHOMA §
COUNTY OF DELAWARE §

The foregoing instrument was acknowledged before me this 13th day of FEBRUARY, 1991, by Tom R. Cone.

My Commission Expires:
10-10-94

Sue Ray
A Notary Public in the
State of OKLAHOMA
SUE RAY
NOTARY PUBLIC
State of Oklahoma, Delaware County
County of Delaware My commission expires 10-10-94

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17th day of January, 1991.

Tom W. Ellison
Tom W. Ellison

2502 Cimmaron
Midland, Texas 79701

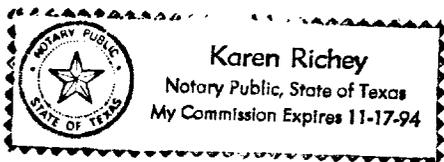
THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 12th day of March, 1991, by Tom W. Ellison.

My Commission Expires:
11-17-94

Karen Richey
A Notary Public in the
State of Texas
County of Midland



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17th day of January, 1991.

Tom W. Ellison
Tom W. Ellison

2502 Cimmaron
Midland, Texas 79701

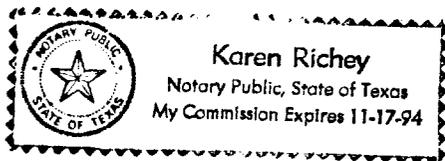
THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 12th day of March, 1991, by Tom W. Ellison.

My Commission Expires:
11-17-94

Karen Richey
A Notary Public in the
State of Texas
County of Midland



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25th day of January, 1991.

William A. Kolliker

William A. Kolliker

3812 Hillcrest Drive
El Paso, Texas 79902-1707

THE STATE OF TEXAS §

COUNTY OF EL PASO §

The foregoing instrument was acknowledged before me this 25th day of January, 1991, by William A. Kolliker.

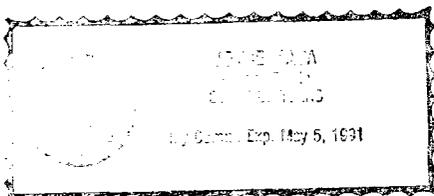
My Commission Expires:

5-5-91

Laura May
A Notary Public in the

State of Texas

County of El Paso



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 4th day of February, 1991.

William Coleman Ransom
William Coleman Ransom

P.O. Box 31
Whitethorn, California 95489

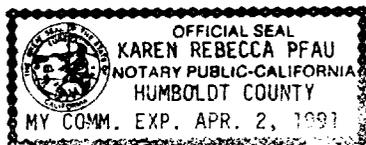
THE STATE OF CALIFORNIA §
COUNTY OF HUMBOLDT §

The foregoing instrument was acknowledged before me this fourth day of February, 1991, by William Coleman Ransom.

My Commission Expires:
04-02-91

Karen Rebecca Pfau
A Notary Public in the

State of California
County of Humboldt



RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 22nd day of January, 1991.

William G. Seal
William G. Seal, Joint Tenant

Deceased 5/14/89
Marcellyn J. Seal, Joint Tenant

William G. & Marcellyn J. Seal
4662 South Troost
Tulsa, Oklahoma 74105

THE STATE OF OK §
COUNTY OF Tulsa §

The foregoing instrument was acknowledged before me this 22nd
day of January, 1991, by William G. Seal
and _____.

My Commission Expires:
7-31-93

Mary Ann Querson
A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 7th day of February, 1991.

Woodlan Perry Saunders
Woodlan Perry Saunders

P.O. Box 1536
Santa Fe, New Mexico 87504-1536

THE STATE OF New Mexico §

COUNTY OF Santa Fe §

The foregoing instrument was acknowledged before me this 7th day of February, 1991, by Woodlan Perry Saunders.

My Commission Expires:

May 8, 1993

Marcianne P. Miller
A Notary Public in the
State of New Mexico
County of Santa Fe

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19th day of February, 1991.

Wynant S. Wilson
Wynant S. Wilson
Wynant S. Wilson

2014 Brook Hollow Drive
Abilene, Texas 79605

THE STATE OF TEXAS §

COUNTY OF TAYLOR §

The foregoing instrument was acknowledged before me this
15th day of March, 1991, by
Wynant S. Wilson.

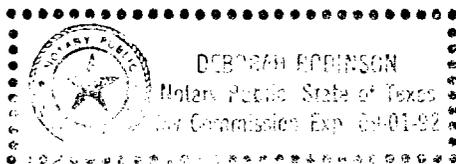
My Commission Expires:

9-1-92

Deborah Robinson
A Notary Public in the

State of TEXAS

County of TAYLOR



Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 21st day of January, 1991.

ROCA Properties, Ltd.

By: Eddie Conquest Fred H. Geist
Title: Managing partners

2001 Gulf Avenue
Midland, Texas 79705

THE STATE OF § TEXAS
COUNTY OF § MIDLAND

The foregoing instrument was acknowledged before me this 21st day of January, 1991, by Eddie Conquest Geist + Fred H. Geist, for/of ROCA PROPERTIES, LTD, a Limited Partnership ~~corporation on behalf of said corporation~~

My Commission Expires:
3-30-91

Eddie Lee Hunt
A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23rd day of January, 1991.

Randolph E. Wilson
Randolph E. Wilson

5949 Sherry Lane
Dallas, Texas 75225

THE STATE OF Texas §

COUNTY OF Dallas §

The foregoing instrument was acknowledged before me this 23rd day of January, 1991, by Randolph E. Wilson.

My Commission Expires:

2-12-91

Quirk Burgess
A Notary Public in the

State of Texas

County of Dallas

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 31st day of January, 1991.

Robert Booth Kellough

Robert Booth Kellough

3824 N. River Road
Port Allen, Louisiana 70767

THE STATE OF LOUISIANA
COUNTY OF WEST BATON ROUGE

The foregoing instrument was acknowledged before me this 31st day of January, 1991, by ROBERT BOOTH KELLOUGH.

My Commission Expires:

6/30/92

Thomas J. LeBlanc
A Notary Public in the

State of LOUISIANA

County of WEST BATON ROUGE

THOMAS J. LeBLANC
CLERK OF COURT
AND EX-OFFICIO NOTARY PUBLIC
PARISH OF WEST BATON ROUGE
STATE OF LOUISIANA

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17 day of January, 1991.

Robert L. E. Burress

Robert L. E. Burress

P.O. Box 671
Farmington, New Mexico 87499

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 15th day of January, 1991, by Robert L. E. Burress.

My Commission Expires:

2-19-94

Gene Buchroeder
A Notary Public in the
State of New Mexico
County of San Juan

Individual Royalty Joinder

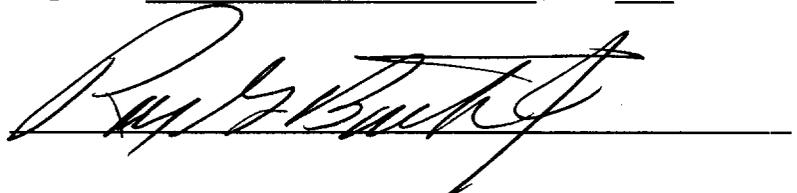
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of January, 1991.



Roy G. Barton, Jr.

P.O. Box 978
Hobbs, New Mexico 88240

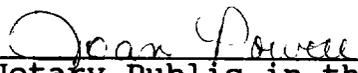
THE STATE OF New Mexico §

COUNTY OF Lea §

The foregoing instrument was acknowledged before me this 16th day of January, 1991, by Roy G. Barton, Jr.

My Commission Expires:

1-14-93


A Notary Public in the

State of New Mexico

County of Lea

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of February, 1991.

Roy S. Magruder Trust
~~Team Bank Fort Worth National Bank~~, Trustee

By: William O. Coats

Title: Vice President and Trust Officer

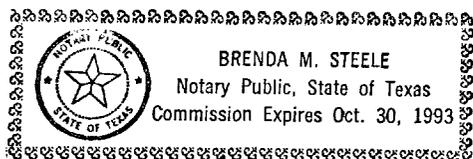
P. O. Box 2050
Fort Worth, Texas 76101

THE STATE OF § Texas
COUNTY OF § Tarrant

The foregoing instrument was acknowledged before me this 15th day of February, 1991, by William O. Coats as Vice President and Trust Officer on behalf of Team Bank.

My Commission Expires:
10-30-93

Brenda M. Steele
A Notary Public



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 26th day of February, 1991.

Rubie C. Bell

Rubie C. Bell Rubie Crosby Bell, a married woman, dealing herein in her sole and separate estate.

1331 Third Street
New Orleans, Louisiana 70130
SS#525-60-7045

THE STATE OF Louiana §
par
COUNTY OF Orleans §

The foregoing instrument was acknowledged before me this 26 day of February, 1991, by Rubie C. Bell.

My Commission Expires:
at death

John A. Wells
A Notary Public in the
State of Louiana
county of Orleans

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

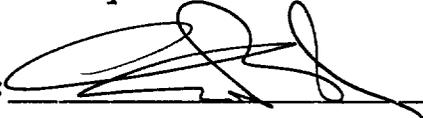
In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 12th day of February, 1991.

Liberty National Bank, Trustee of
the Newby-Foresee Trust

By: 

Title: Vice President

Liberty National Bank
Attn: Chris Buck
P. O. Box 25848
Oklahoma City, Oklahoma 73125

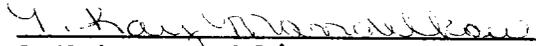
THE STATE OF § Oklahoma

COUNTY OF § Oklahoma

The foregoing instrument was acknowledged before me this 12th day of February, 1991, by Chris Buck as Vice President on behalf of The Liberty National Bank & Trust Company.

My Commission Expires:

4-16-94


A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 21st day of January, 1991.

Sara H. Stovall
Sara H. Stovall

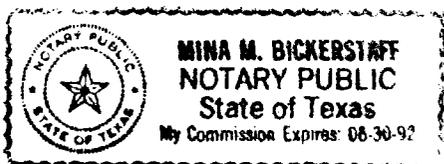
3800 Minot
Fort Worth, Texas 76133

THE STATE OF Texas §
COUNTY OF Tarrant §

The foregoing instrument was acknowledged before me this 21st day of January, 1991, by Sara H. Stovall.

My Commission Expires:
June 30, 1992

Mina M. Bickerstaff
A Notary Public in the
State of Texas
County of Tarrant



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16 day of JAN, 1991.

Savannah Hess Altman

Savannah Hess Altman

1604 Hudson Drive
Ponca City, Oklahoma 74601

THE STATE OF OKLA S
COUNTY OF KAY S

The foregoing instrument was acknowledged before me this 16th day of January, 1991, by Savannah Hess Altman.

My Commission Expires:
2-4-91

Sharon K. Richardson
A Notary Public in the
State of Oklahoma
County of Kay

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 8th day of FEBRUARY, 1991.

NCNB Texas National Bank,
Trustee for the Selma E. Andrews
Trust #5188-01/02

By: Patricia Ann Cox

Title: VICE PRESIDENT

NCNB Texas National Bank
P. O. Box 830308
Dallas, Texas 75283-0308

THE STATE OF TX §

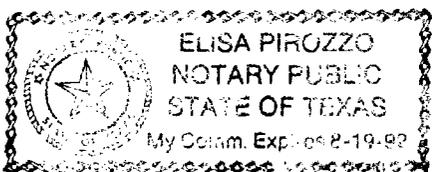
COUNTY OF DALLAS §

The foregoing instrument was acknowledged before me this 8th day of February, 1991, by Patricia Ann Cox as Vice President on behalf of NCNB Texas National Bank.

My Commission Expires:

8-19-92

Elisa Pirozzo
A Notary Public
ELISA PIROZZO



Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of JANUARY, 1991.

Spindletop Exploration Co. Inc

By:

Joseph V. Hughes, Jr.

Title:

PRESIDENT

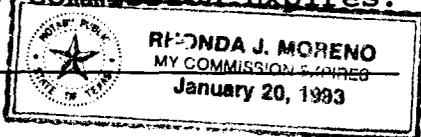
P.O. Box 25504
Dallas, Texas 75225-5504

THE STATE OF TEXAS §

COUNTY OF DALLAS §

The foregoing instrument was acknowledged before me this 23rd day of January, 1991, by Joseph V. Hughes, Jr., President, for/of Spindletop Exploration Company, a Texas corporation, on behalf of said corporation.

My Commission Expires:



Rhonda J. Moreno
A Notary Public

Individual Royalty Joinder

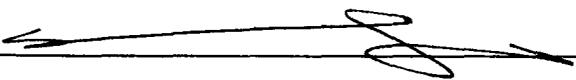
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 20th day of February, 1991.



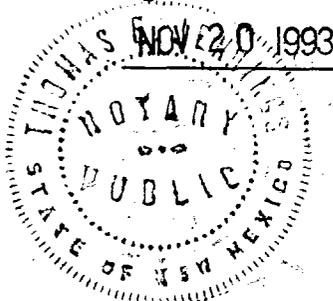
Stanley W. Crosby, III

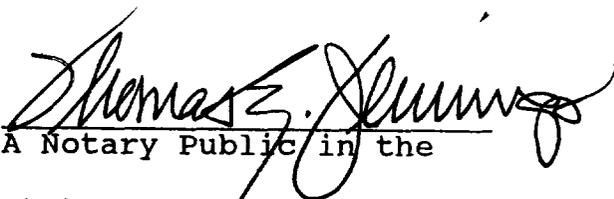
P.O. Box 2346
Roswell, New Mexico 88202-2346

THE STATE OF New Mexico §
COUNTY OF Chaves §

The foregoing instrument was acknowledged before me this 20th day of February, 1991, by Stanley W. Crosby, III.

My Commission Expires:





A Notary Public in the
State of New Mexico
County of Chaves

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19th day of Jan., 1991.

Joyce Ann Brown

Joyce Ann Brown

P.O. Box 72
Watrous, New Mexico 87753

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 19th day of January, 1991, by Joyce Ann Brown.

My Commission Expires:

8-2-94

Mason K. Bunker
A Notary Public in the
State of NM
County of Bernalillo

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of February, 1991.

Katherine K. McIntyre
Revocable Trust #4541
Team Bank, Trustee

By: William O. Coats

Title: Vice President and Trust Officer

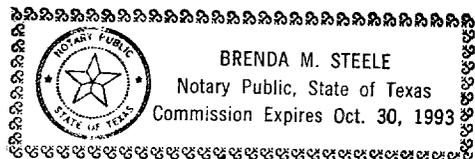
c/o Team Bank
Box 2050
Trust Minerals Station 31
Fort Worth, Texas 76113

THE STATE OF § Texas
COUNTY OF § Tarrant

The foregoing instrument was acknowledged before me this 15th day of February, 1991, by William O. Coats as Vice President and Trust Officer on behalf of Team Bank.

My Commission Expires:
10-30-93

Brenda M. Steele
A Notary Public



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 14th day of JANUARY, 1991.

Kelly H. Baxter

Kelly H. Baxter

P.O. Box 11193
Midland, Texas 79702

THE STATE OF §

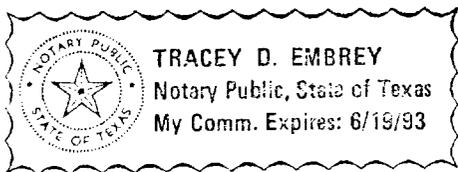
COUNTY OF §

The foregoing instrument was acknowledged before me this 14th day of January, 1991, by Kelly H. Baxter

My Commission Expires:

6/19/93

Tracey D. Embrey
A Notary Public in the
State of Texas
County of Midland



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 27 day of FEB, 1991.

Martha Farris
Martha Farris
Rt. 73, Box 912
Onia, Arkansas 72663

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 27th day of February, 1991, by Martha Farris.

My Commission Expires:
12-31-92

Larry Trammell
A Notary Public in the
State of Ark
County of Stovell

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5TH day of FEBRUARY, 1991.

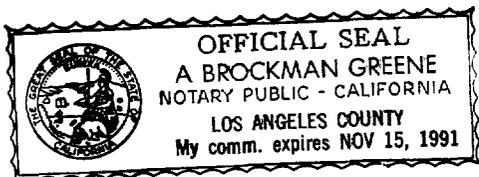
Mary Frances Hurley
Mary Frances Hurley
297 W. Loma Alta Drive
Altadena, California 91001

THE STATE OF CALIFORNIA
COUNTY OF LOS ANGELES S

The foregoing instrument was acknowledged before me this 5TH day of FEBRUARY, 1991, by MARY FRANCES HURLEY.

My Commission Expires:
NOV 15, 1991

A. Brockman Greene
A Notary Public in the
State of CALIFORNIA
County of LOS ANGELES



RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 21st day of February, 1991.

Mary G. Moran Fagan Payne
Basden Trust
Texas Commerce Bank N.A. as
Agent and Attorney-In-Fact for
Mary G. Moran Fagan Payne Basden

By: Karen L. Robbins

Title: ASSISTANT VICE PRESIDENT & TRUST OFFICER

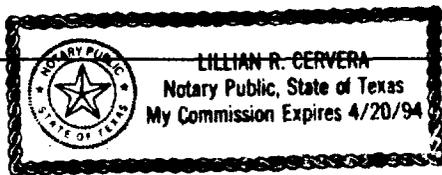
Mary G. Moran Fagan Payne
Basden Trust
c/o Texas Commerce Bank
P. O. Box 2258
Houston, Texas 77252-8033

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 21st day of February, 1991, by Karen L. Robbins as Assistant Vice President & Trust Officer on behalf of Texas Commerce Bank, N.A.

My Commission Expires:



Lillian R. Cervera
A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 11th day of February, 1991.

Mary Lee S. Reese
Mary Lee S. Reese

P.O. Box 8531
Salt Lake City, Utah 84108-8531

THE STATE OF UTAH §
COUNTY OF SALT LAKE §

The foregoing instrument was acknowledged before me this 11 day of February, 1991, by MARY LEE REESE.

My Commission Expires:
6/15/91

[Signature]
A Notary Public in the
State of UTAH
County of SALT LAKE

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 22 day of January, 1991.

Mary T. Christmas Holladay
Mary T. Christmas Holladay

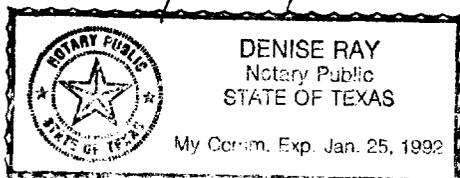
P.O. Box 201204
Arlington, Texas 76006-1204

THE STATE OF Texas
COUNTY OF Tarrant

The foregoing instrument was acknowledged before me this 22nd day of January, 1991, by Mary T. Christmas Holladay.

My Commission Expires:

1/25/92



Denise Ray
A Notary Public in the
State of Texas
County of Tarrant

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 8 day of FEBRUARY, 1991.

Nathan Appleman & Bessemer
Trust Co.,
Co-Trustees of the Nathan Appleman
Trust Acct. ~~45-3080~~

Bessemer Trust Co. Co-Trustee
of Nathan Appleman Trust
Acct. ~~45-3080~~

By: *Guy Waltman*
Title: Senior Vice President
Guy Waltman

Nathan Appleman, Co-Trustee
of Nathan Appleman Trust
Acct. ~~45-3080~~

c/o Bessemer Trust Co. N. A.
Attn: Guy Waltman
630 Fifth Avenue
New York, New York 10111-001

THE STATE OF New York
COUNTY OF New York §

The foregoing instrument was acknowledged before me this 8
day of February, 1991, by Nathan Appleman & Angelo D
Campanile, and VP Bessemer Trust Co as Trustee on behalf of
Nathan Appleman Trust.

My Commission Expires:

Laura M Ram
A Notary Public

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18 day of January, 1991.

New Mexico Boys Ranch, Inc.

By: Charles E. Gibson
Charles E. Gibson
Title: Executive Director

Boys Ranch Station
Boys Ranch, New Mexico 87002

THE STATE OF NM §
COUNTY OF Socorro §

The foregoing instrument was acknowledged before me this 18th day of January, 1991, by Charles E. Gibson, for/of New Mexico Boys Ranch, Inc., a New Mexico corporation, on behalf of said corporation.

My Commission Expires:
10-9-92

Gerry Lawrence
A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16 day of January, 1991.

Norma Jean Talbert
Norma Jean Talbert

~~Rt. 1 # 76 Aspen~~ 1704 Aspen Acres
Benton, Arkansas ~~72105~~ 72015

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 16th day of January, 1991, by Norma Jean Talbert.

My Commission Expires:
7/24/92

C. H. Bonner
A Notary Public in the
State of Arkansas
County of Saline

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15 day of January, 1991.

Olis S. Hess
Olis S. Hess

1029 Shady Place
Ponca City, Oklahoma 74601

THE STATE OF Okla. §
COUNTY OF Osage §

The foregoing instrument was acknowledged before me this 15 day of Jan., 1991, by Olis S. Hess.

My Commission Expires:
2-7-94

Virgie M. Haines
A Notary Public in the
State of Oklahoma
County of Osage

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of Jan., 1991.

Otis E Ramsey, Jr.

Otis E. Ramsey, Jr.

18510 24th Place NE
Seattle, Washington 98155

THE STATE OF ~~WASHINGTON~~

COUNTY OF KING S

The foregoing instrument was acknowledged before me this 16th day of January, 1991, by OTIS E. RAMSEY JR.

My Commission Expires:

July 29, 1994

[Signature]
A Notary Public in the
State of Washington
County of King

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 22nd day of January, 1991.

Otis Trammell
Otis Trammell

3513 Maple Lane
Tillamook, Oregon 97141

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 11th day of MARCH, 1991, by Otis Trammell.

My Commission Expires:
4-13-91

D. Corwin
D. CORWIN
NOTARY PUBLIC OREGON
My Commission Expires 4-13-91

A Notary Public in the
State of Oregon
County of Tillamook

Individual Royalty Joinder

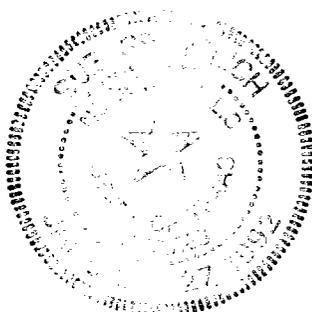
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17 day of Jan, 1991.



Patrick J. Leonard
Patrick J. Leonard

P.O. Box 335
Dallas, Texas 75221

THE STATE OF Texas
COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 17 day of Jan, 1991, by Patrick J. Leonard.

My Commission Expires:
1/28/92

Shea Leonard
A Notary Public in the
State of Texas
County of Dallas

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 5th day of March, 1991.

Petco Limited

By: [Signature] (General Partner)

By: [Signature] (General Partner)

P.O. Box 911
Breckenridge, Texas 76024

ALL
AS TO FULL
[Signature]
AS TO CONTENT
[Signature]
AS TO INTEREST
ADMINISTRATION
[Signature]

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 4th day of February, 1991.

Beverly T. Carter
Beverly T. Carter, Trustee
Powhatan Carter, Jr. and Beverly T. Carter Revocable Trust
~~Powhatan Carter, Jr.~~

P.O. Box 328
Ft. Sumner, New Mexico 88119

THE STATE OF New Mexico §
COUNTY OF De Baca §

The foregoing instrument was acknowledged before me this 4th day of February, 1991, by Beverly T. Carter, Trustee of the Powhatan Carter, Jr. and Beverly T. Carter Revocable Trust dated September 25, 1981, on behalf of said Trust.

My Commission Expires:
June 14, 1993

Katherine Hollard
A Notary Public in the
State of New Mexico
County of De Baca

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 21st day of January, 1991.

Fancher Archer

Fancher Archer 460-46-0078

P.O. Drawer 430
Hale Center, Texas 79041

THE STATE OF TEXAS §
COUNTY OF HALE §

The foregoing instrument was acknowledged before me this 21st day of January, 1991, by FANCHER ARCHER.

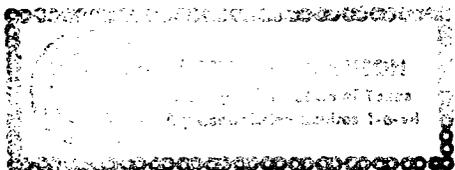
My Commission Expires:

1-6-94

Barbara Ferguson
A Notary Public in the

State of Texas

County of Hale



RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of January, 1991.

Caldwell J. Saunders Trust

By: Faye N. Saunders

Faye N. Saunders, Trustee U/W/O
Caldwell J. Saunders

Bobby D. Dyess
Bobby D. Dyess, Trustee U/W/O
Caldwell J. Saunders

Caldwell J. Saunders Trust
2500 South Tower, Lb 201
600 N. Pearl
Dallas, Texas 75201-2880

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 23 day of January, 1991, by Faye N. Saunders and Bobby D. Dyess as Trustees on behalf of Caldwell J. Saunders Trust.

My Commission Expires:

11-18-93

Jan H. Steele
A Notary Public



Individual Royalty Joinder

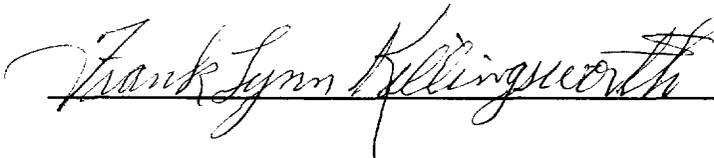
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18th day of January, 19 91.



Frank Lynn Killingsworth

414 W. Walnut
Shawnee, Oklahoma 74868

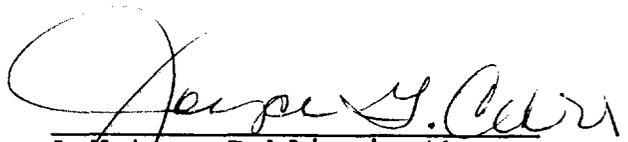
THE STATE OF OKLAHOMA §

COUNTY OF SEMINOLE §

The foregoing instrument was acknowledged before me this 18th day of January, 19 91, by Frank Lynn Killingsworth.

My Commission Expires:

2/25/93


A Notary Public in the
State of OKLAHOMA
County of SEMINOLE

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18 day of January, 1991.

George Etta Emerson
447-30-7617
George Etta Emerson

7216 Comanche
Oklahoma City, Oklahoma 73132

THE STATE OF OKLAHOMA §
COUNTY OF OKLAHOMA §

The foregoing instrument was acknowledged before me this 18th day of January, 1991, by George Etta Emerson.

My Commission Expires:

March 12, 1994

Cyndi Hoskins
A Notary Public in the
State of Oklahoma
County of Oklahoma

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25th day of January, 1991.

George W. Brownlee Estate

By: Edgie B. Brownlee
Title: Independent Executrix

George W. Brownlee Estate
10055 Olympia Drive
Houston, Texas 77042

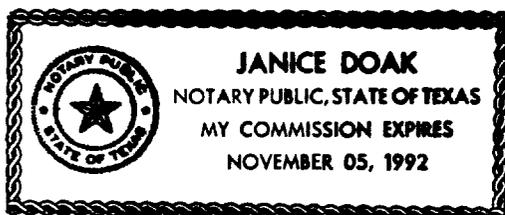
THE STATE OF § TEXAS
COUNTY OF § HARRIS

The foregoing instrument was acknowledged before me this 25th day of January, 1991, by Edgie B. Brownlee as Independent Executrix on behalf of George W. Brownlee, Deceased.

My Commission Expires:

November 5, 1992

Janice Doak
A Notary Public



R 071

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of Jan., 1991.

Gwen G. Hall

Gwen G. Hall

4004 Terrace Drive
Amarillo, Texas 79109

THE STATE OF §
COUNTY OF Potter §

The foregoing instrument was acknowledged before me this 16th day of Jan., 1991, by Gwen G. Hall.

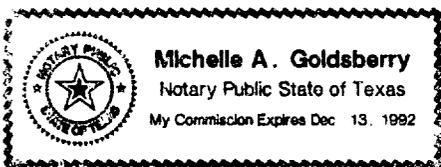
My Commission Expires:

12/13/92

Michelle A. Goldsberry
A Notary Public in the

State of TX

County of Potter



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 28 day of Ten, 1991.



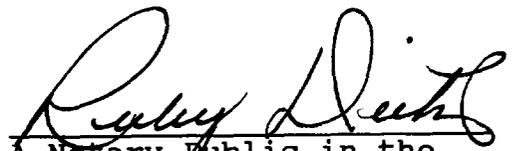
Kirby D. Schenck

c/o Liberty National Bank, AGENT FOR
~~Personal Representative of~~
Kirby D. Schenck
P. O. Box 1627
Lovington, NM 88260-1627

THE STATE OF N.M. §
COUNTY OF Lea §

The foregoing instrument was acknowledged before me this
12th day of March, 1991, by
Kirby D. Schenck.

My Commission Expires:
June 27, 1992


A Notary Public in the
State of New Mexico
County of Lea

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 13 day of Feb, 1991.

585-26-7433
Helen Jane Christmas Barby
Helen Jane Christmas Barby

P.O. Box 2767
Edmond, Oklahoma 73034

THE STATE OF Okla §
COUNTY OF Okla §

The foregoing instrument was acknowledged before me this 13 day of Feb, 1991, by Helen Jane Christmas Barby.

My Commission Expires:
5-10-91

Michelle May
A Notary Public in the
State of Okla
County of Okla

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25th day of January, 1991.

Hendrick Memorial Hospital

By: [Signature]

Title: Se Vice President

1242 19th St.
Abilene, Texas 79601

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 25th day of January, 1991, by Rich De Jong for/of Hendrick Memorial Center, a non profit corporation, on behalf of said corporation.

My Commission Expires:

 **CAROLYN L. WILLIAMS**
Notary Public, State of Tex.
My Commission Exp. 3-18-92
WLD01214.04/mc R 083

Carolyn L. Williams
A Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 24th day of January, 1991.

Howard Payne College
F/B/O McArthur Academy of Freedom

By: Donni R Jackson

Title: Trust Officer

c/o Commercial National Bank Trust
Dept.
Box 21119
Shreveport, Louisiana 71152

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 24th day of January, 1991, by Louise R. Jackson as Trust Officer on behalf of Commercial National Bank in Shreveport, Trustee.

My Commission Expires:

At death

Malcolm F. Stadlander
A Notary Public

MALCOLM F. STADTLANDER, Notary Public
Caddo Parish, Louisiana
My Commission is for Life.

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 14th day of January, 1991.

Jean Anderson Simpson
Jean Anderson Simpson

5802 S. Delaware Place
Tulsa, Oklahoma 74105

THE STATE OF OKLA §
COUNTY OF TULSA §

The foregoing instrument was acknowledged before me this 14th day of January, 1991, by Jean Anderson Simpson.

My Commission Expires:
March 7, 1992

Bunny Lydon
A Notary Public in the
State of Oklahoma
County of Tulsa

Individual Royalty Joinder

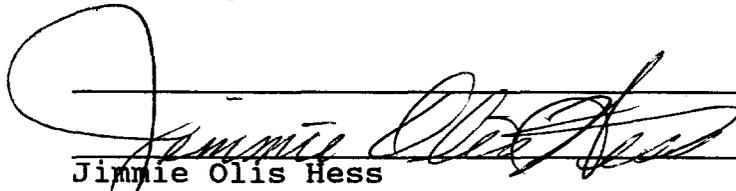
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of January, 1991.



Jimmie Olis Hess

1325 Gannon
Enid, Oklahoma 73703

THE STATE OF Oklahoma
COUNTY OF Garfield

The foregoing instrument was acknowledged before me this 23 day of January, 1991, by Jimmie O. Hess.

My Commission Expires:
JAN. 2, 1995


A Notary Public in the
State of Oklahoma
County of Garfield

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18 day of Jan, 1991.

John Albert Hess
John Albert Hess

P.O. Box 979
Velma, Oklahoma 73091-0979

THE STATE OF § Okla.
COUNTY OF § Stephens

The foregoing instrument was acknowledged before me this 18th day of Jan., 1991, by John Albert Hess.

My Commission Expires:
10 - 25 - 94

Lita Wallace
A Notary Public in the
State of Okla.
County of Carter

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of January, 1991.

John B. Whitley

John B. Whitley

2520 Desoto
Shreveport, Louisiana 71103

THE STATE OF Louisiana
COUNTY OF Caddo s

The foregoing instrument was acknowledged before me this fifteenth day of January, 1991, by John B. Whitley.

My Commission Expires:
BARBARA E. GRISHAM, Notary Public
Caddo Parish, Louisiana
My Commission is for Life

Barbara E. Grisham
A Notary Public in the
State of Louisiana
County of Caddo

Individual Royalty Joinder

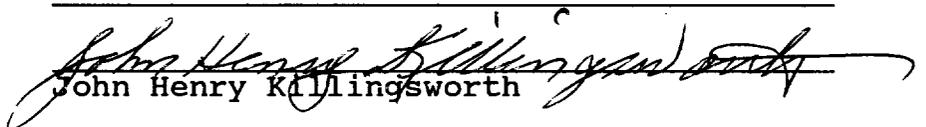
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of January, 1991.


John Henry Killingsworth

1933 Minnesota
Shawnee, Oklahoma 74801

THE STATE OF Oklahoma
COUNTY OF Pottawatomie

The foregoing instrument was acknowledged before me this 16th day of January, 1991, by John Henry Killingsworth

My Commission Expires:
8-1-91


A Notary Public in the
State of Oklahoma
County of Pottawatomie

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18TH day of JANUARY, 1991.



John W. Burress, Individually
and as Joint Tenant, WROS



Constance F. Burress, Joint
Tenant, WROS

P.O. Box 36363
Albuquerque, New Mexico 87176

THE STATE OF NEW MEXICO §

COUNTY OF BERNALILLO §

The foregoing instrument was acknowledged before me this
18TH day of JANUARY, 1991, by
JOHN W. BURRESS and CONSTANCE F. BURRESS

My Commission Expires:

3/28/92



A Notary Public in the

State of NEW MEXICO

County of BERNALILLO

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 12 day of February, 1991.

Johnnie Trammell
Johnnie Trammell

Rt. 2 Box 74
Liberty, Missouri 64068

THE STATE OF Missouri §
COUNTY OF Platte §

The foregoing instrument was acknowledged before me this 12 day of February, 1991, by Johnnie Trammell.

My Commission Expires:
August 29, 1993

John Orlich, Jr.
A Notary Public in the
State of Missouri
County of Clay

JOHN ORLICH, JR.
Notary Public-State of Missouri
Commissioned in Clay County
My Commission Expires August 29, 1993

JOHN ORLICH, JR.
Notary Public-State of Missouri
Commissioned in Clay County
My Commission Expires August 29, 1993

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 17th day of January, 1991.

Eunice James Gray
Eunice James Gray

177 Tweed Boulevard
Nyack, New York 10960

THE STATE OF NY §
COUNTY OF Rockland §

The foregoing instrument was acknowledged before me this 17th day of January, 1991, by Eunice James Gray.

My Commission Expires:
5/31/92

Joyce Cardile
A Notary Public in the

State of JOYCE CARDILE
~~NOTARY PUBLIC, State of New York~~
No. 4731936
County of Qualified in Rockland County
Commission Expires May 31, 1992

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 29 day of Jan, 1991.

Betty Moran Rice
Betty Moran Rice

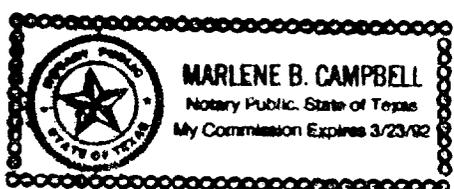
6223 Lupton
Dallas, Texas 75225

THE STATE OF TEXAS §
COUNTY OF DALLAS §

The foregoing instrument was acknowledged before me this 29th day of January, 1991, by BETTY MORAN RICE

My Commission Expires:
3-23-92

Marlene B. Campbell
A Notary Public in the
State of TEXAS
County of DALLAS



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 22 day of January, 1991.

Billie June Crow
Billie June Crow

P.O. Box 643
Roswell, New Mexico 88201

THE STATE OF ~~NEW MEXICO~~ .
COUNTY OF BERNARDILLO §

The foregoing instrument was acknowledged before me this 22nd day of January, 1991, by BILLIE JUNE CROW

My Commission Expires:
August 30, 1991

Kevin S. Gaffney
A Notary Public in the
State of New Mexico
County of Bernardillo

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 13th day of March, 1991.

Bradford Ace Christmas
Bradford Ace Christmas

P.O. Box 173
Wagon Mound, New Mexico 87752

THE STATE OF N.M. §
COUNTY OF Bernalillo §

The foregoing instrument was acknowledged before me this 13th day of March, 1991, by BRADFORD ACE CHRISTMAS.

My Commission Expires:
August 30, 1991

Reis G. Gaffan
A Notary Public in the
State of New Mexico
County of Bernalillo

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 6th day of January FEBRUARY, 1991.

Bradley Nominee Corporation

By: James R. McGoogan
Title: PRESIDENT

P.O. Box 292
Wellsville, New York 14895

THE STATE OF NEW YORK §

COUNTY OF ALLEGANY §

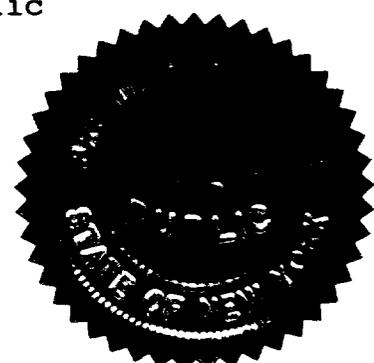
The foregoing instrument was acknowledged before me this 6th day of January FEBRUARY, 1991, by JAMES R. McGOOGAN, PRESIDENT, for/of BRADLEY NOMINEE CORPORATION, a New York corporation, on behalf of said corporation.

My Commission Expires:
3-30-92

Brenda R. Hatch Kiss
A Notary Public

WLD01214.04/mc R 018

NOTARY PUBLIC
STATE OF NEW YORK
EXPIRES 3-30-92



Individual Royalty Joinder

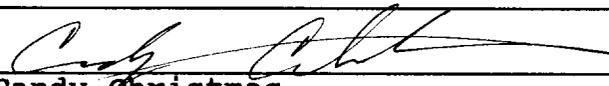
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 16th day of January, 19 91


Candy Christmas

P.O. Box 1564
Mooresville, North Carolina 28115

THE STATE OF North Carolina §
COUNTY OF Catawba §

The foregoing instrument was acknowledged before me this 16th day of January, 19 91, by CANDY CHRISTMAS.

My Commission Expires:
7-27-93


A Notary Public in the
State of North Carolina
County of Catawba

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 21st day of February, 1991.

Cathie Cone Auvenshine
Cathie Cone Auvenshine

P.O. Box 658
Dripping Springs, Texas 78620

THE STATE OF Texas §
COUNTY OF Travis §

The foregoing instrument was acknowledged before me this 21st day of February, 1991, by Cathie Cone Auvenshine.

My Commission Expires:
7-26-92



Lisa Marie Gomez
A Notary Public in the
State of Texas
County of Travis

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 6 day of FEBRUARY, 1991.

Cecil Frank Wilson

Cecil Frank Wilson

613 N.E. 5th Street
Amarillo, Texas 79107

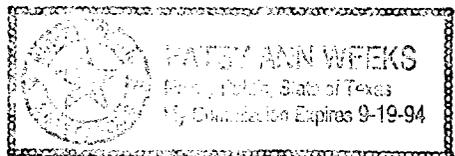
THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 6 day of FEBRUARY, 1991, by Cecil Frank Wilson.

My Commission Expires:
9-19-94

Patsy Ann Weeks
A Notary Public in the

State of TEXAS
County of POTTER



Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 14th day of January, 1991.

Charles B. Brownlee
Charles B. Brownlee

129 Crestbrook
Red Oak, Texas 75154-9619

THE STATE OF §

COUNTY OF §

The foregoing instrument was acknowledged before me this 12 day of MAR, 1991, by Charles B. Brownlee.

My Commission Expires:

2/18/92

Dotti Pearson
A Notary Public in the
State of TX
County of ELLIS

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 22 day of January, 1991

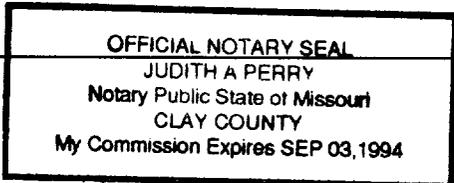
Charles H. Price, II
Charles H. Price, II

One W. Armour Blvd-Ste 300
Kansas City, Missouri 64111

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 22nd day of January, 1991, by Charles H. Price II.

My Commission Expires:



Judith A. Perry
A Notary Public in the
State of Missouri
County of Clay

RATIFICATION AND JOINDER OF UNIT AGREEMENT FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of Jan, 1991.

[Signature]
Charles Daniel Ransom

P.O. Box 221
Eureka, California 95502

CAT. NO. NN00627 TO 1944 CA (9-84)

TICOR TITLE INSURANCE

(Individual)

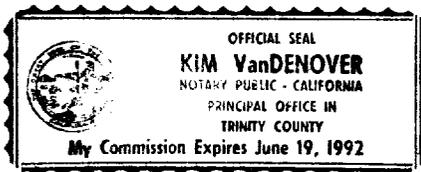
STATE OF CALIFORNIA }
COUNTY OF Trinity } SS.

On January 23, 1991 before me, the undersigned, a Notary Public in and for said State, personally appeared Charles Daniel Ransom

this by

personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.



Signature [Signature]

(This area for official notarial seal)

county of

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 12th day of February, 1991.

Charles Pfile Trust
Liberty National Bank & Trust,
Trustee

By: 
Title: Vice President

Liberty National Bank & Trust
Box 25848
Oklahoma City, Oklahoma 74868

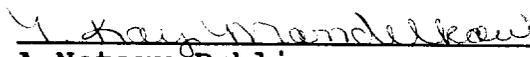
THE STATE OF § Oklahoma

COUNTY OF § Oklahoma

The foregoing instrument was acknowledged before me this 12th day of February, 1991, by Chris Buck as Vice President on behalf of The Liberty National Bank & Trust Company.

My Commission Expires:

4-16-94


A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18th day of January, 1991.

Charlotte Francis Weldon
Charlotte Francis Weldon

RR 2, Box 16
Seminole, Oklahoma 74868

THE STATE OF OKLAHOMA §
COUNTY OF SEMINOLE §

The foregoing instrument was acknowledged before me this 18th day of January, 1991, by Charlotte Francis Weldon.

My Commission Expires:
2/25/93

Joseph Y. Carr
A Notary Public in the
State of OKLAHOMA
County of SEMINOLE

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of January, 1991.

Charon Oil Group

By:

Title:

Barbara B. Connor
Administrator

P.O. Box 795
Fort Dodge, Iowa 50501-0795

THE STATE OF § Iowa
COUNTY OF § Webster

The foregoing instrument was acknowledged before me, this 15th day of January, 1991, by Barbara B. O'Connor, for/of Charon Oil Group, a Partnership corporation, on behalf of said corporation.

My Commission Expires:

12-10-93

W.D. Dowd
A Notary Public

Individual Royalty Joinder

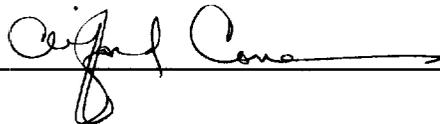
RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 26TH day of FEBRUARY, 1991.



Clifford Cone

P.O. Box 6010
Lubbock, Texas 79413
E50-60-28-20-RI-P
E50-60-28-02-3C-RI-P

THE STATE OF NM §
COUNTY OF LEA §

The foregoing instrument was acknowledged before me this 26th day of February, 1991, by Clifford Cone.

My Commission Expires:

August 06, 1994


A Notary Public in the

State of New Mexico

County of Lea

Corporate Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 23 day of JANUARY, 1991.

Colonial Securities Co.

By: [Signature]
Title: [Signature]

P.O. Box 381
Shawnee Mission, Kansas 66201-0381

THE STATE OF Kansas §
COUNTY OF Johnson §

The foregoing instrument was acknowledged before me this 23rd day of JANUARY, 1991, by CHARLES G. WAKE JR. Pres, for/of Colonial Securities, a Missouri corporation, on behalf of said corporation.

My Commission Expires:
9-5-94

[Signature]
A Notary Public

WLD01214.04/mc R 038

SHARON L. JONES
Notary Public - State of Kansas
My Appt. Expires: 9-5-94

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 14th day of January, 1991.

D. C. Trust

By: Marilyn J. Cone, Trustee
Marilyn Cone, Trustee

D. C. Trust
Box 64244
Lubbock, TX 79464

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 14th day of January, 1991, by Marilyn J. Cone as Trustee on behalf of DC Trust.

My Commission Expires:
October 15, 1994

Cheryl R. Darragge
A Notary Public

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 25 day of January, 1991.

Julio L. Payne Exec. for
Daniel L. Trammell
Daniel Trammell

Rt. 2 Box 72
Mountain View, Arkansas 72560

THE STATE OF Delaware
COUNTY OF New Castle

The foregoing instrument was acknowledged before me this 25 day of January, 1991, by Julia F. Payne.

My Commission Expires:
10/11/92

Carla S. Luke
A Notary Public in the
State of Delaware
County of New Castle

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 28 day of Jan, 1991.

David E. Price

David E. Price
77 S. Birch Rd. Apt 11-D
Ft. Lauderdale, Florida 33316

THE STATE OF Florida §
COUNTY OF Broward §

The foregoing instrument was acknowledged before me this 28th day of January, 1991, by David E Price.

My Commission Expires:

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP. JUNE 20, 1993
BONDED THRU GENERAL INS. UND.

Chra A. Lode
A Notary Public in the
State of Florida
County of Broward

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 15th day of January, 1991.

David Luskey
David Luskey
101 N. Houston St.
Fort Worth, Texas 76102

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 15 day of January, 1991, by David Luskey.

My Commission Expires:
12-9-94

Kay E. Kerr
A Notary Public in the
State of Texas
County of Tarrant

 KAY E. KERR, Notary Public
in and for the State of Texas
My Commission Expires 12-9-94

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 1st day of February, 1991.

Della Long
Della Long

Rt. 72 Pioneer Village B27
Mountain View, Arkansas 72560

THE STATE OF ARKANSAS
COUNTY OF STONE §

The foregoing instrument was acknowledged before me this 1st day of February, 1991, by DELLA LONG.

My Commission Expires:
3-16-2000

Deann H. Denton
A Notary Public in the
State of ARKANSAS
County of STONE

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 24th day of JANUARY, 1991.

Doris B. Neal
Doris B. Neal

1201 Bering #79
Houston, Texas 77057-2308

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 24th day of January, 1991, by Doris B. Neal

My Commission Expires:
5-20-92

Chad G. [Signature]
A Notary Public in the
State of Texas
County of Harris

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 1 day of March, 1991.

Dosha Gilbert
DOSHA GILBERT

HC-73, Box 476
Mountain View, Arkansas 72560

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 1st day of March, 1991, by Dosha Gilbert.

My Commission Expires:
3-18-93

Brenda J. Burroughs
A Notary Public in the
State of Arkansas
County of Stone

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 18 day of January, 1991.

Edgar Lewis Killingsworth
444-28-9493
Edgar Lewis Killingsworth

2112 NW 118 Terrace
Oklahoma City, Oklahoma 73120

THE STATE OF Oklahoma
COUNTY OF Oklahoma

The foregoing instrument was acknowledged before me this 18th day of January, 1991, by Edgar Lewis Killingsworth

My Commission Expires:
March 29, 1994

Eric Hope Cooper
A Notary Public in the
State of Oklahoma
County of Oklahoma

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 30 day of June, 1991.

Ellis Trammell
Ellis Trammell

Hc-73 Box 904
Onia, Arkansas 97386

THE STATE OF §
COUNTY OF §

The foregoing instrument was acknowledged before me this 30 day of June, 1991, by Ellis Trammell.

My Commission Expires:
12-31-92

Jerry Trammell
A Notary Public in the
State of Ark
County of Stone

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 19th day of January, 1991.

Frank O. Elliott d/b/a

Elliott Oil Company

By: [Signature]

Title: Owner

P.O. Box 1355
Roswell, New Mexico 88201

STATE OF NEW MEXICO)
)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this
14th day of January, 19 91 by
Frank O. Elliott d/b/a Elliott Oil Company

My Commission expires:

[Signature]
Notary Public

12/23/92

Individual Royalty Joinder

RATIFICATION AND JOINDER OF UNIT AGREEMENT
FOR THE ARROWHEAD GRAYBURG UNIT

In consideration of the execution of the Unit Agreement for the development and operation of the Arrowhead Grayburg Unit Area, County of Lea, State of New Mexico, dated November 19, 1990, in form approved on behalf of the Secretary of the Interior and the State of New Mexico, the undersigned (whether one or more) hereby expressly joins said Unit Agreement and ratifies, approves, adopts, and confirms said Unit Agreement as fully as though the undersigned had executed the original agreement.

This Ratification and Joinder shall be effective as to the Undersigned's interests in any lands and leases, or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering the lands within the Unit Area in which the undersigned may be found to have an oil or gas interest.

This Ratification and Joinder of Unit Agreement shall be binding upon the undersigned, his, her or its heirs, devisees, executors, assigns or successors in interest.

EXECUTED this 11 day of February, 1991.

Emely Ann Edwards
Emely Ann Edwards

226 W. 7th St.
Bristow, Oklahoma 74010

THE STATE OF OKLA. §
COUNTY OF CREEK §

The foregoing instrument was acknowledged before me this
11th day of February, 1991, by
Emely Ann Edwards.

My Commission Expires:
8-5-91

Charlotte J. Webb
A Notary Public in the
State of Oklahoma
County of Creek

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Scott D. Harris
President

Date: 4-26-91

ABBY CORPORATION WI 01
PO BOX 1629
GRAND JUNCTION COLORADO 81502

A

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: *Ronnie Van Winkle*

Date: *Apr. 1 22, 1991*

AMERICAN EXPLORATION CO W1 02
RONNIE VAN WINKLE
700 LOUISIANA
HOUSTON TEXAS 77002

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Date: _____

Gregory J. Brose
Gregory J. Brose
6100 Beckwourth Court
Parker CO 80134
WI 6

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Thomas A & Sharon P Brose

Date: 4/18/91

THOMAS A & SHARON P BROSE
3 COLONIAL COURT
LUFKIN TEXAS 75901

WI 08

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

Mercantile-Safe Deposit and Trust Company
Trustee U/D D. Brown

By: _____



J. Michael Miller, III
Vice President

Date: _____

4/26/91

TRUST U/O DONALDSON BROWN
C/O BROVENTURE CO INC
ATTN DONALD HUGHES
18 WEST MADISON STREET
BALTIMORE MD 20201

WI 09

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: John R. Bryant
Date: 4-18-91

JOHN R BRYANT
811 WEST SILVER
HOBBS NEW MEXICO 88240

WI 10

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

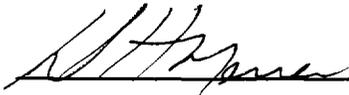
Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:  _____

Date: 4/30/91

Chevron U.S.A. Inc
P. O. Box 1150
Midland, TX 79702

WI 13

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Mark A. Masley 

Date: April 25, 1991 

CONOCO INC
MIKE JOHNSON
10 DESTA DR
MIDLAND TEXAS 79705

WI 14

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

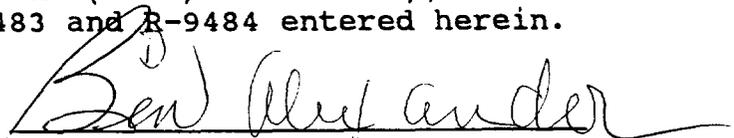
The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

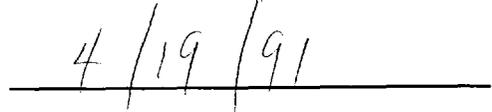
Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:



Date:



DASCO ENERGY CORP
PO BOX 2545
HOBBS NEW MEXICO 88240

WT 16

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

G. J. McAlpin

Date: _____

4-26-91

G T MCALPIN WI 27
PO BOX 48
CUERO TEXAS 77854-2732

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Lora B. McAlpin

Date: 4/18/91

LORA B MCALPIN
900 ETHEL BLVD
BRYAN TEXAS 77802-1707

WI 28

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Richard L. Moore
Aug - in Fact

Date: _____

4/26/91

THE MORE TRUST
P O BOX 1733
MIDLAND TEXAS 79702

WI 31

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Date: _____

THOMAS H MOORE
4481 HACKBERRY CT
MIDLAND TEXAS 79707-1614

WI 32

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Robert D. Hunt

Date: 4/24/91

OXY USA
ROBERT D HUNT
PO BOX 50250
MIDLAND TEXAS 79710

WI 36

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Anderson Carter

Date: _____

4-22-91

ANDERSON CARTER R 003
PO BOX 998
LAS CRUCES NEW MEXICO 88004

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: *Thelma Taylor*
Thelma Taylor, Executrix

Date: 4-25-91

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Beatrice V. Cook

Date: _____

4-17-91

BEATRICE V COOK R 011
PO BOX 1076
ROSWELL NEW MEXICO 88202

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Betty Moran Rice

Date: April 18, 1991

BETTY MORAN RICE
6223 LUPTON
DALLAS TEXAS 75225

R 012

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Billie June Crow

Date: _____

4/29/91

BILLIE JUNE CROW R 014
PO BOX 843
ROSWELL NEW MEXICO 88201

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Buster Trammell

Date: 4-21-91

BUSTER TRAMMELL
2516 YELLOW FIR RD
TILLAMOOK OREGON 97141

R 020

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Carolyn Loveless Schlicher

Date: 4-17-91

CAROLYN LOVELESS SCHLICHER R 023
PO BOX 806
ROSWELL NEW MEXICO 88202-0606

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Cathie Cone Auvenshine

Date: 4/26/91

CATHIE CONE AUVENSHINE R 025
PO BOX 658
DRIPPING SPRINGS TEXAS 78820

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Charles B. Brownlee

Date: April 18, 1991

CHARLES B BROWNLEE
129 CRESTBROOK
RED OAK TEXAS 75164-9619

R 027

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Charles H Price II

Date: _____

4-20-91

CHARLES H PRICE II R 028
ONE W ARMOUR BLVD-STE 300
KANSAS CITY MISSOURI 64111

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

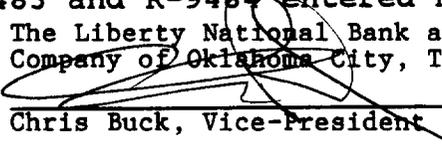
Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

The Liberty National Bank and Trust
Company of Oklahoma City, Trustee

By:


Chris Buck, Vice-President

Date:

April 19, 1991

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Charlotte Francis Weldon

Date: 4/19/91

CHARLOTTE FRANCIS WELDON
RR 2 BOX 18
SEMINOLE OKLAHOMA 74868

R 032

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 

Date: 4-19-91

CHARON OIL GROUP
PO BOX 795
FORT DODGE IOWA 50501-0795

R 033

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Richard G. Martin, Agent for Colin McMillan

Date: _____

4-17-91

COLIN MCMILLAN R 037
118 WEST 1ST STREET
ROSWELL NEW MEXICO 88201-4702

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Julie Payne Exec.

Date: 4-18-91

DANIEL TRAMMEL ESTATE
JULIE PAYNE EXECUTRIX
118 REAMER AVE
WILMINGTON DELAWARE 19804

R 041

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: David Luskey

Date: 04-19-91

DAVID LUSKEY R 043
101 N HOUSTON ST
FORT WORTH TEXAS 76102

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

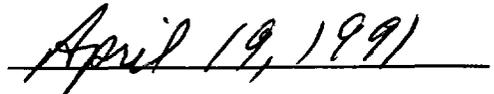
Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:



Date:



DAVID PETROLEUM CORP
116 WEST FIRST
ROSWELL NEW MEXICO 88201-4702

R 044

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Della Long

Date: 4-24-91

DELLA LONG R 045
HC 72 PIONEER VILLAGE B24
MOUNTAIN VIEW ARKANSAS 72560

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

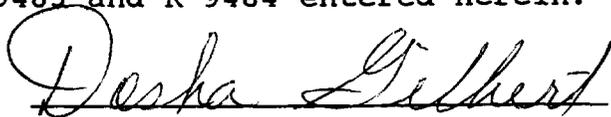
The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:



Date:

4-19-91

DOSHA GILBERT R 048
HC 73 BOX 478
MOUNTAIN VIEW ARKANSAS 72680

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Edgar Lewis Killingsworth

Date: April 18, 1991

EDGAR LEWIS KILLINGSWORTH R 061
2112 NW 118 TERRACE
OKLAHOMA CITY OKLAHOMA 73120

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Date: _____

ELLIOTT OIL COMPANY
PO BOX 1355
ROSWELL NEW MEXICO 88201

R 053

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Eunice James Gray

Date: 4-19-91

EUNICE JAMES GRAY
177 TWEED BOULEVARD
NYACK NEW YORK 10960

R 059

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

BY Frank Lynn Killingsworth

Date: 4-17-91

FRANK LYNN KILLINGSWORTH
414 W WALNUT
SEMINOLE OKLAHOMA 74868

R 066

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: ^{Ms.} George Etta Emerson

Date: 4-21-91

GEORGE ETTA EMERSON R 070
7218 COMANCHE
OKLAHOMA CITY OKLAHOMA 73132

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Gwen G Hall

Date: _____

4-23-91

GWEN G HALL
4004 TERRACE DRIVE
AMARILLO TEXAS 79108

R 072

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____



Date: _____

4-20-91

HENDRICK MEMORIAL HOSPITAL
1242 19TH ST
ABILENE TEXAS 79601

R 083

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

Howard Payne College
F/B/O McArthur Academy of Freedom
By: James R. Gisher
Trust Officer

Date: April 22, 1991

WLD10322.06L/db

HOWARD PAYNE COLLEGE
F/B/O MCARTHUR ACADEMY OF
FREEDOM
C/O COMMERCIAL NATL BANK TRUST DEPT
BOX 21119
SHREVEPORT LOUISIANA 71152

R 088

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Jean Anderson Simpson

Date: 4/26/91

JEAN ANDERSON SIMPSON
5802 S DELAWARE PLACE
TULSA OKLAHOMA 74106

R 093

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:



Date:

4-19-91

JIMMIE OLIS HESS
1326 GANNON
ENID OKLAHOMA 73703

R 084

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

John B. Whitley

Date: _____

4-22-91

JOHN B WHITLEY R 088
2620 DESOTO
SHREVEPORT LOUISIANA 71103

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

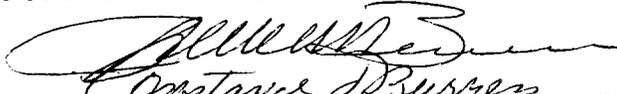
Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 
Constance J. Burress

Date: 4/24/91

JOHN W BURRESS & CONSTANCE F BURRESS R 102
PO BOX 36363
ALBUQUERQUE NEW MEXICO 87178

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Joyce Ann Brown

Date: _____

4-25-91

JOYCE ANN BROWN
PO BOX 72
WATROUS NEW MEXICO 87763

R 104

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

ESTATE OF KATHLEEN CONE

By: *Leon Binkley*
Leon Binkley, Personal Representative

Date: April 29, 1991

KATHLEEN CONE ESTATE
PO BOX 1609
LOVINGTON NEW MEXICO 88260

R 108

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Kelly H. Baxter

Date: _____

4/18/91

KELLY H BAXTER
PO BOX 11183
MIDLAND TEXAS 79702

R 109

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Leo Wiman

Date: _____

4/22/91

LEO WIMAN
PO BOX 12073
DALLAS TEXAS 75226

R 118

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Lillian Myers

Date: April 24, 1991

LILLIAN MYERS
10232 REGAL OAKS APT C
DALLAS TEXAS 75230

R 117

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: John Henry Killingsworth

Date: April 19, 1991

JOHN HENRY KILLINGSWORTH
1933 MINNESOTA
SHAWNEE OKLAHOMA 74801

R 100

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Juan Lopez

Date: _____

4/19/91

LOUIS LUSKEY R 122
101 N HOUSTON ST
FORT WORTH TEXAS 76102

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

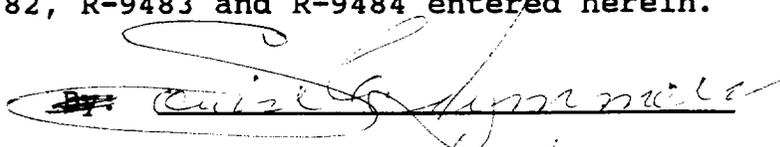
Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.


Date: 4/18/91

LOUISE C SUMMERS R 124
PO BOX 778
HOBBS NEW MEXICO 88240

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: *Lucinda Loveless*

Date: April 20, 1991

LUCINDA LOVELESS R 126
419 WEST WELLINGTON #1
CHICAGO ILLINOIS 60657-6803

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Margaret Elizabeth Burns

Date: 4-20-91

MARGARET ELIZABETH BURNS R 131
3113 NW 60TH STREET
OKLAHOMA CITY OKLAHOMA 73112

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Martha Farris

Date: 4-22-91

MARTHA FARRIS
RT 73 BOX 912
ONIA ARKANSAS 72663

R 133

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Date: _____

MARY FRANCES HURLEY
297 W LOMA ALTA DRIVE
ALTADENA CALIFORNIA 91001

R 137

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Nadine Prideau Loveless (SMITH)

Date:

April 19, 1991

NADINE PRIDEAU LOVELESS SMITH R 146
C/O MR BAYNARD W MALONE
ATTORNEY-AT-LAW
PO BOX 666
ROSWELL NEW MEXICO 88202

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

New Mexico Boys Ranch, Inc.

By: by: X Charles E. Gibson
Charles E. Gibson
Executive Director

Date: 4/19/91

NEW MEXICO BOYS RANCH INC R 149
BOYS RANCH STATION
BOYS RANCH NEW MEXICO 87002

Gerry Lawrence
Assistant Secretary

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Olis S Hess

Date: _____

April 22 / 1991

OLIS S HESS R 151
1028 SHADY PLACE
PONCA CITY OKLAHOMA 74601

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

OTIS TRAMMELL

Date:

4-22-91

OTIS TRAMMELL
3613 MAPLE LANE
TILLAMOOK OREGON 97141

R 153

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Patrick J. Leonard

Date: 4-22-91

PATRICK J LEONARD
PO BOX 336
DALLAS TEXAS 75221

R 156

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Beverly T. Carter

Date: _____

April 22, 1991

POWHATAN & BEVERLY T CARTER REV TRUST R 160
BEVERLY T CARTER TRUSTEE
P O BOX 328
FT SUMNER NEW MEXICO 88119

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

For and on behalf of
REBEL OIL COMPANY

John Spear
Authorized Signature(s)

Date: _____

4/15/91

REBEL OIL COMPANY
6333 MOCKINGBIRD
BLDG 147 STE 247
DALLAS TX 75214

R 166

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Robert Booth Kellough

Date: April 22, 1991

ROBERT BOOTH KELLOUGH
3824 N RIVER ROAD
PORT ALLEN LOUISIANA 70767

R 168

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Date: _____

ROBERT J LEONARD R 171
PO BOX 400
ROSWELL NEW MEXICO 88201

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Robert L. E. Burress

Date: _____

April 23, 1991

ROBERT L E BURRESS R 172
PO BOX 871
FARMINGTON NEW MEXICO 87489

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

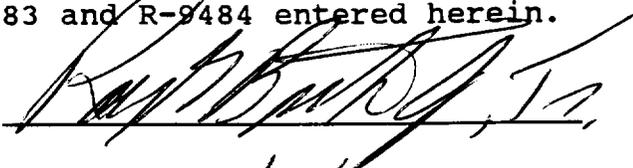
Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 

Date: 

ROY G BARTON JR R 174
PO BOX 978
HOBBS NEW MEXICO 88240

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

The Liberty National Bank and Trust
Company of Oklahoma City, Trustee

By: _____

Chris Buck, Vice-President

Date: April 19, 1991

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Sara H. Stovall

Date: 4/22/91

SARA H STOVALL
3800 MINOT
FORT WORTH TEXAS 76133

R 181

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Savannah Hess Altman

Date: April 20 1991

SAVANNAH HESS ALTMAN
1804 HUDSON DRIVE
PONCA CITY OKLAHOMA 74601

R 182

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

NCNB TEXAS NATIONAL BANK, TRUSTEE

By: *Datun G. Cox*
VICE PRESIDENT

Date: 4-26-91

SELMA E ANDREWS TRUST #6188-01/02
NCNB TEXAS NATIONAL BANK
TRUSTEE FOR THE SELMA E ANDREWS TRUST
P O BOX 830308
DALLAS TEXAS 75283-0308

R 184

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Frank J. Busby

Date:

4-22-91

SHATTUCK ST MARY'S SCHOOL
PO BOX 218
FAIRBAULT MINNESOTA 55021

R 185

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Joseph V. Hughes Jr.

Date: _____

4-19-91

SPINDLETOP EXPLORATION CO INC R 191
PO BOX 25504
DALLAS TEXAS 75225-5504

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Stephen N James

Date: _____

4-25-91

STEPHEN N JAMES R 188
6406 SCOUT ISLAND CIRCLE SOUTH
AUSTIN TEXAS 78731

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Stanley W Crosby III

Date: Apr. 17, 1991

STANLEY W CROSBY III R 183
P O BOX 2346
ROSWELL NEW MEXICO 88202-2346

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____
Graham

Date: _____
4-29-91

SUE SAUNDERS GRAHAM R 197
PO BOX 987
ROSWELL NEW MEXICO 88201-0487

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

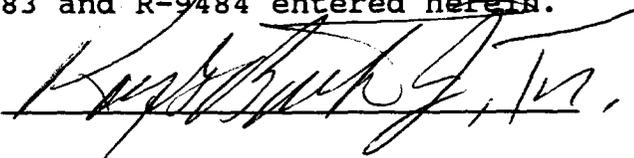
Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 

Date: 4-16-91

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

THE W. A. YEAGER GROUP

By: _____

One of its Partners

Date: _____

4/17/91

THE W A YEAGER GROUP
PO BOX 990
MIDLAND TEXAS 79702

R 207

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

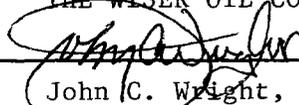
Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

THE WISER OIL COMPANY

By: _____


John C. Wright, President

Date: _____

April 22, 1991

THE WISER OIL COMPANY R 209
DEPT L 454-P
PITTSBURGH PENNSYLVANIA 15264-0454

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____



Date: _____

TIMOTHY T LEONARD
PO BOX 8006
SAN ANTONIO TEXAS 78209

R 211

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Tom R. Cone

Date: _____

4-22-91

TOM R CONE R 212
PO BOX 778
JAY OKLAHOMA 74348

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

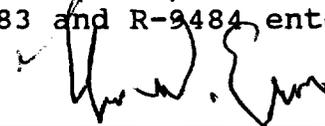
Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____


Date: _____
4-17-91

TOM W ELLISON
2602 CIMMARON
MIDLAND TEXAS 79701

R 213

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: William G. Seal

Date: April 24, 1991

WILLIAM G SEAL & MARCELLYN J SEAL R 220
DECEASED
4882 SOUTH TROOST
TULSA OKLAHOMA 74106

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: William W. Burress

Date: April 18, 1991

WILLIAM W BURRESS
3 MAXWELL LANE
PLANO TEXAS 75094

R 221

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Woodlan Perry Saunders

Date: 4/23/91

WOODLAN PERRY SAUNDERS R 222
PO BOX 1536
SANTA FE NEW MEXICO 87501-1536

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Wynant S. Wilson

Date:

4-16-91

WYNANT S WILSON
2014 BROOK HOLLOW DRIVE
ABILENE TEXAS 79605

R 223

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: *Elmerio Condon Pitt*

Date: 4/22/91

ROCA PROPERTIES LTD
2001 GULF AVENUE
MIDLAND TEXAS 79705

R 226

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 

Date: April 19, 1991

MACK H WOOLRIDGE
P O BOX 1846
ALBANY TEXAS 76430

R 230

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

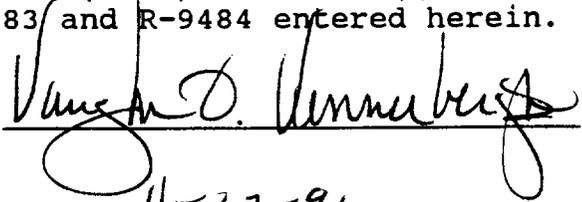
The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:



Date:

4-22-91

ESR

CROSS TIMBERS OIL CO L P R 234
ATTN VAUGHN D VENNERBERG II
810 HOUSTON STREET SUITE 2000
FORT WORTH TEXAS 76102

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 
Charles F. Doornbos, Trustee

Date: April 16, 1991

CHARLES F DOORNBOS REVOCABLE TRUST
ATTN SUE ABBE
P O BOX 638
BARTLESVILLE OK 74006

R 236

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: 

Date: 4/22/91

TRIO PETROLEUM CORPORATION R 239
ROUTE 76 BOX 35 E
GLENNVILLE WV 36351

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

Hawkins Oil & Gas, Inc. on behalf
of:
Dominion Reserves, Inc.
Hawkins Oil & Gas, Inc.
Hawkins Acquisitions Limited Partn.
Hawkins Acquisitions Limited Partn. II

By: 

Charles H. Perrin
Vice President-Land

Date:

April 18, 1991

HAWKINS OIL & GAS INC
ATTN LORI DAUGHERTY
400 S BOSTON SUITE 800
TULSA OKLAHOMA 74103

R 238

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Betty J. Wilson
Vice President, N.M. Baptist Foundation

Date: April 19, 1991

NM BAPT. FOUNDATION, TRUSTEE R 241
FOR THE NEW MEXICO BAPTIST
CHILDRENS HOME
P O BOX 485
ALBUQUERQUE NEW MEXICO 87103-0485

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Ellen Ann Wallace Williams

Date: 17 April 1991

ELLEN ANN WALLACE WILLIAMS R 246
1801 CRESTMONT COURT
GLENDALE CA 91208

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Edwin L Bedford, Trustee

Date:

April 16, 1991

EDWIN L BEDFORD, TRUSTEE R 247
~~ATTORNEY IN FACT FOR~~
HELEN LEARMONT BEDFORD FAMILY TRUST
P O BOX 275
POINT RICHMOND CA 94807-0275

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: *Elizabeth B. Butler, Executrix of
Estate of Rachel Bedford Bowen*

Date: 4/26/91

ELIZABETH B BUTLER
EXECUTRIX OF THE ESTATE OF
RACHEL BEDFORD BOWEN
6240 RIVERSIDE AVE
RIVERSIDE CA 92506

R 248

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Lavenia Perry

Date: 4/16/91

LAVENIA PERRY
2517 FALCON DRIVE
ROUND ROCK TEXAS 78687

R 249

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Nancy Smith Hurd

Date: 4/23/91

NANCY SMITH HURD
112 PECAN SUITE 2626
SAN ANTONIO TEXAS 78205

R 250

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

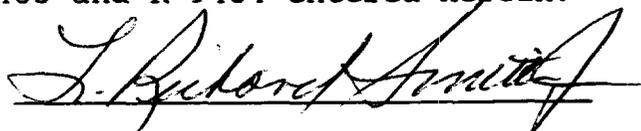
The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:



Date:

4-24-91

L RICHARD SMITH JR
115 GATEWOOD
SAN ANTONIO TEXAS 78209

R 252

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Mildred Buchanan

Date: 5/1

MILDRED BUCHANAN
P O BOX 387
STRAWN TEXAS 76475

R 254

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

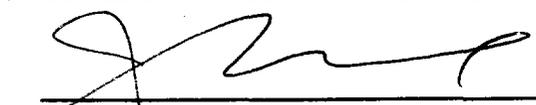
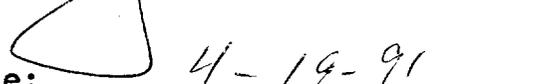
Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Date: _____

J W NEAL
P O BOX 278
HOBBS NEW MEXICO 88240

R 261

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Patricia H. Neal

Date: 4-17-91

PATRICIA H NEAL
C/O NEAL & NEAL
P O BOX 278
HOBBS NEW MEXICO 88240

R 262

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Rebecca Fretwell

Date: 4-16-1991

REBECCA FRETWELL
LAKEWOOD CHRISTIAN MANOR
2141 SPRINGDALE ROAD S W APT 708
ATLANTA GEORGIA 30315

R 263

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Martha Ainsworth

Date: 4-16-91

MARTHA AINSWORTH
BOX 452
SALT FLAT TEXAS 79847

R 265

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Joyce McCarty
Adm Estate Vaughn McCarty

Date:

April 19, 1991

ESTATE OF VAUGHN MCCARTY R 266
JOYCE MCCARTY ADMX
1201 ~~SILVER AZO~~ SILVERADO
RENO NEVADA 89502
89512

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

Bill Terry

Date: _____

4-19-91

BILL TERRY
3100 MANDELL CIRCLE
CLOVIS NEW MEXICO 88101

R 267

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Winnie Williams

Date: 4-16-91

WINNIE WILLIAMS
P O BOX 16129
LUBBOCK TEXAS 79490

R 269

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Allie Wilkinson

Date: 4-15-91

ALLIE WILKINSON
3715 95TH STREET
LUBBOCK TEXAS 79423

R 273

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: *Lonelle Holder*

Date: 4-15-91

LONELLE HOLDER
110 NORTH AVENUE O
POST TEXAS 79356

R 274

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: E. D. Osburn

Date: 4-16-91

E D OSBURN
110 NORTH AVENUE O
POST TEXAS 79356

R 275

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Howard Beach

Date: 4-17-91

HOWARD BEACH
P O BOX 2198
COTTONWOOD ARIZONA 86326

R 276

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Marie McKinnon

Date:

April 18, 1991

MARIE MCKINNON
807 WARM SANDS COURT S E
ALBUQUERQUE NEW MEXICO 87123

R 278

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Billie Schroder

Date: April 17-91

BILLIE SCHRODER
805 WARM SANDS COURT S E
ALBUQUERQUE NEW MEXICO 87123

R 279

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Marie Shaw

Date: 04/19/1991

MARIE SHAW
ROUTE 2 BOX 490-1
KILLEN ALABAMA 35645

R 283

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: Jimmy D. Morey
Date: 4/18/91

JIMMY D MOREY REVOCABLE TRUST R 284
JIMMY D MOREY & MARY M TRUSTEES
1502 BUTTRAM ROAD
OKLAHOMA CITY OKLAHOMA 73120

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By:

Marilyn M. Law
James B. Law

Date:

April 21, 1991

MARILYN M LAW & JAMES B LAW R 285
TRUSTEES OF THE M LAW REVOCABLE
TRUST DATED 2-3-89
P O BOX 20628
OKLAHOMA CITY OKLAHOMA 73156-0628

ARROWHEAD GRAYBURG UNIT
BALLOT FOR APPROVAL OF THE ORDERS OF THE
NEW MEXICO OIL CONSERVATION DIVISION
FOR STATUTORY UNITIZATION

Chevron U.S.A. Inc., as Unit Operator of the Arrowhead Grayburg Unit (AGU) in Lea County, New Mexico scheduled a hearing before the Oil Conservation Division of the State of New Mexico for March 7, 1991. Chevron notified all known owners of interest under notice dated February 12, 1991 and supplied a copy of the three applications filed on behalf of Chevron. These applications were for (a) statutory unitization, (b) authority to institute a waterflood project for AGU, and (c) contraction and expansion of the Arrowhead Grayburg Pool and contraction of the horizontal limits of the Langlie Mattix Pool, Penrose Skelly Pool and lower vertical limits of the Eumont Pool.

The hearing was held as scheduled and the Division has approved the applications as evidenced in the attached Orders. In accordance with the New Mexico Statutory Unitization Act (70-7-1 through 70-7-21 N.M.S.A., 1978, Ann.), all interests in the Arrowhead Grayburg Unit will be committed for the purpose of conducting unitized enhanced recovery operations as of the effective date of statutory unitization.

Chevron will propose to the Oil Conservation Division, the New Mexico State Land Office, and the United States Bureau of Land Management, that unitized operations and statutory unitization become effective at 7:00 A.M. on June 1, 1991.

Please acknowledge receipt and approval of the Division's Orders by returning two signed copies of this ballot to Chevron in the enclosed postage paid self addressed envelope at your earliest convenience.

Your execution of this form acknowledges and confirms approval of Chevron's plan of operation for the Arrowhead Grayburg Unit in compliance with Section 70-7-8 N.M.S.A. (1978, as amended), and the Division's Orders Nos. R-9482, R-9483 and R-9484 entered herein.

By: _____

James G. Bruton

Date: _____

19 Apr 91

JAMES G BRUTON
P O BOX 218
WAURIKA OKLAHOMA 73673

R 287

DENISE K. BECKHAM

ARROWHEAD-GRABLING UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED WORKING INTERESTS

CHEVRON ELAP

TRACT PARTICIPATION	PERCENT	M.I. OWNER	M.I. PERCENT	Y / N PARTICIPATION	BALLOTTED OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N ROYALTY	% TR. ROY BALLOTTED
1A	0.8601510	Burton Veteo Chevron U.S.A. Inc Dasco Energy Corp. David Mussett Larry Nemyr Marian Mussett Meridian Oil, Inc. Para Mia, Inc.	2.040826000 35.546875000 20.408155000 0.499999500 0.781250000 8.683691000 13.671875000 18.367328500	Y	0.0000000 0.3057568 0.1755409 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	12.500000000 Y	12.500000000 Y	100.00000
* 1A	0.8601510		100.000000000		0.4812977		12.500000000		12.5000000 100.0000
1B	0.0000000	Borrego Properties, Inc. Burton Veteo Dasco Energy Corp. David Mussett Marian Mussett	36.734657000 4.081652000 40.816310000 3.450000000 14.917381000	Y	0.0000000 0.0000000 0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	12.500000000 Y	12.500000000 Y	100.0000
* 1B	0.0000000		100.000000000		0.0000000		12.500000000		12.5000000 100.0000
2	9.3721080	Amoco Production Company Atlantic Richfield Company Chevron U.S.A. Inc Conoco, Inc.	25.000000000 25.000000000 25.000000000 25.000000000	Y	0.0000000 0.0000000 2.3430270 2.3430270	U.S.A. SCHEDULE C	12.500000000 Y	12.500000000 Y	100.0000
* 2	9.3721080		100.000000000		4.6860540		12.500000000		12.5000000 100.0000
3	1.5458080	Marathon Oil Company	100.000000000	Y	0.0000000	U.S.A. SCHEDULE C	12.500000000	Y	12.5000000 100.0000
* 3	1.5458080		100.000000000		0.0000000		12.500000000		12.5000000 100.0000
4A	0.0000000	Chevron U.S.A. Inc Larry Nemyr Meridian Oil, Inc. Trust U/D Donaldson Brown	69.433594000 0.976563000 17.089843000 12.500000000	Y	0.0000000 0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	12.500000000 Y	12.500000000 Y	100.0000
* 4A	0.0000000		100.000000000		0.0000000		12.500000000		12.5000000 100.0000
4B	0.1607790	Burton Veteo Chevron U.S.A. Inc Dasco Energy Corp. David Mussett Larry Nemyr Marian Mussett Meridian Oil, Inc. Para Mia, Inc.	1.530620000 44.433594000 15.306116000 0.375000000 0.976563000 6.512768000 17.089843000 13.775496000	Y	0.0714399 0.0246090 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	12.500000000 Y	12.500000000 Y	100.0000
* 4B	0.1607790		100.000000000		0.0960489		12.500000000		12.5000000 100.0000
4C	0.0000000	Borrego Properties, Inc. Burton Veteo Dasco Energy Corp. David Mussett Marian Mussett	36.734657000 4.081652000 40.816310000 3.450000000 14.917381000	Y	0.0000000 0.0000000 0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	12.500000000 Y	12.500000000 Y	100.0000
* 4C	0.0000000		100.000000000		0.0000000		12.500000000		12.5000000 100.0000
5	2.3939320	Andrew B. Burlinson Aubrey C. Price Bernard G. Scott Celia A. Zimm Chicora Modesta Williams Trust Gregory J. Brose James W. Winkel Estate Jefferson Wheat Gataga Williams Trust	0.200000000 0.250000000 0.750000000 0.250000000 1.500000000 0.075000000 7.075000000 1.500000000	Y	0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0017954 0.0000000 0.0000000	STATE OF NEW MEXICO	12.500000000 Y	12.500000000 Y	100.0000

DENISE K. BECKHAM

TRACT	PERCENT PARTICIPATION	M.I. OWNER	M.I. PERCENT	Y / N	BALLOTTED PARTICIPATION NUMBER	OWNER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	* TR. ROY BALLOTTED
5	2.3939320	John R. Brose Kim D. Jones L. Paul Lathan Larry A. Cress Randy M. Kidwell Estate Southwest O & G Income Fund IX-A, L.P. Southwest Royalties, Inc. The Williams Partnership Thomas A. & Sharon P. Brose Thomas H. Moore W. Scott Ramsey	0.500000000 0.250000000 0.500000000 0.250000000 0.500000000 3.537500000 3.537500000 77.000000000 0.075000000 1.250000000 1.000000000	Y	0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0017954 0.0299241 0.0000000			12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000	Y	12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000	100.0000
* 5	2.3939320		100.000000000	Y	0.0335149			12.500000000	Y	12.5000000	100.0000
6	22.1920840	Conoco, Inc.	100.000000000	Y	22.1920840	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 6	22.1920840		100.000000000	Y	22.1920840			12.500000000	Y	12.5000000	100.0000
7	3.4915270	American Exploration ACQ. VI American Exploration Company American Production Part. VI American Production Part. VII N.Y. Life O & G Prod. Part. II-B N.Y. Life O & G Prod. Part. II-E N.Y. Life O & G Prod. Part. II-F N.Y. Life O & G Prod. Part. II-G N.Y. Life O & G Prod. Part. III-B N.Y. Life O & G Prod. Part. III-C	12.426200000 5.126504000 52.083700000 12.816258000 2.898767420 4.517383536 2.116004185 2.116004185 5.133587965 1.432211621 1.449383271	Y	0.4338641 0.1789933 1.8185164 0.4474831 0.1012112 0.1577257 0.0738809 0.1792406 0.0500061 0.0506056	STATE OF NEW MEXICO		12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000 12.500000000	Y	12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000 12.5000000	100.0000
* 7	3.4915270		99.999999998	Y	3.4915270			12.500000000	Y	12.5000000	100.0000
8	1.9157340	Amerada Hess Corporation	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 8	1.9157340		100.000000000	Y	0.0000000			12.500000000	Y	12.5000000	100.0000
9	0.0913930	Exxon Company, U.S.A.	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 9	0.0913930		100.000000000	Y	0.0000000			12.500000000	Y	12.5000000	100.0000
10	2.9095050	Oxy, U.S.A.	100.000000000	Y	2.9095050	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 10	2.9095050		100.000000000	Y	2.9095050			12.500000000	Y	12.5000000	100.0000
11	2.0121710	Oxy, U.S.A.	100.000000000	Y	2.0121710	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 11	2.0121710		100.000000000	Y	2.0121710			12.500000000	Y	12.5000000	100.0000
12	2.7785370	Atlantic Richfield Company	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 12	2.7785370		100.000000000	Y	0.0000000			12.500000000	Y	12.5000000	100.0000
13	0.0971370	Chevron U.S.A. Inc	100.000000000	Y	0.0971370	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 13	0.0971370		100.000000000	Y	0.0971370			12.500000000	Y	12.5000000	100.0000
14A	3.6631460	Marathon Oil Company	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 14A	3.6631460		100.000000000	Y	0.0000000			12.500000000	Y	12.5000000	100.0000
14B	0.1981230	Marathon Oil Company	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 14B	0.1981230		100.000000000	Y	0.0000000			12.500000000	Y	12.5000000	100.0000
15A	0.6088300	Atlantic Richfield Company	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 15A	0.6088300		100.000000000	Y	0.0000000			12.500000000	Y	12.5000000	100.0000

TRACT PARTICIPATION	PERCENT	M.I. OWNER	M.I. PERCENT	Y	BALLOTTED PARTICIPATION NUMBER	OWNER	ROYALTY OWNER	PERCENT ROYALTY	N	BALLOTTED ROYALTY	% TR. BALLOTTED
*15A	0.6088300		100.000000000		0.0000000			12.500000000		12.5000000	100.0000
15B	0.0000000	Abby Corporation Barbara E. Hannifin Belco Development Company Hanson-McBride Petroleum Company McBride Oil & Gas Corporation Nuevo Seis, Inc. Westway Petroleum Company	25.000000000 8.000000000 21.875000000 10.000000000 24.000000000 8.000000000 3.125000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*15B	0.0000000		100.000000000		0.0000000			12.500000000		12.5000000	100.0000
16	9.0738100	Chevron U.S.A. Inc	100.000000000	Y	9.0738100	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*16	9.0738100		100.000000000		9.0738100			12.500000000		12.5000000	100.0000
17	15.8792970	Chevron U.S.A. Inc	100.000000000	Y	15.8792970	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*17	15.8792970		100.000000000		15.8792970			12.500000000		12.5000000	100.0000
18	0.0000000	Chevron U.S.A. Inc	100.000000000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*18	0.0000000		100.000000000		0.0000000			12.500000000		12.5000000	100.0000
19	0.9038850	Atlantic Richfield Company	100.000000000	Y	0.0000000	Atlantic Richfield Company	R 008	0.390630000	Y	0.0000000	0.0000
							R 010	0.195310000	Y	0.0000000	0.0000
							R 011	0.078120000	Y	0.0781200	0.6750
							R 012	0.390625000	Y	0.3906250	3.1250
							R 014	0.390630000	Y	0.3906300	3.1250
							R 017	0.048830000	Y	0.0488300	0.3906
							R 018	0.390630000	Y	0.0000000	0.0000
							R 021	0.390630000	Y	0.0000000	0.0000
							R 022	0.048830000	Y	0.0000000	0.0000
							R 025	0.058593000	Y	0.0585930	0.4687
							R 026	0.078130000	Y	0.0000000	0.0000
							R 027	0.585940000	Y	0.5859400	4.6875
							R 029	0.032553000	Y	0.0000000	0.0000
							R 033	0.585930000	Y	0.5859300	4.6874
							R 035	0.058593000	Y	0.0000000	0.0000
							R 040	0.058593000	Y	0.0000000	0.0000
							R 047	0.195300000	Y	0.1953000	1.5624
							R 059	0.097650000	Y	0.0000000	0.0000
							R 062	1.757810000	Y	0.0000000	0.0000
							R 069	0.585940000	Y	0.0000000	0.0000
							R 071	0.156260000	Y	0.1562600	1.2501
							R 072	0.048830000	Y	0.0000000	0.0000
							R 082	0.781250000	Y	0.0000000	0.0000
							R 084	0.039060000	Y	0.0000000	0.0000
							R 090	0.390620000	Y	0.3906200	3.1250
							R 104	0.390630000	Y	0.0000000	0.0000
							R 106	0.048830000	Y	0.0000000	0.0000
							R 107	0.292965000	Y	0.2929650	2.3437
							R 108	0.019530000	Y	0.0195300	0.1662
							R 109	0.058593000	Y	0.0000000	0.0000
							R 110	0.390630000	Y	0.0000000	0.0000
							R 074	0.078120000	Y	0.0000000	0.0000
							R 113	0.585940000	Y	0.5859400	4.6875
							R 123	0.390630000	Y	0.3906300	3.1250
							R 132	0.032554000	Y	0.0325540	0.2604
							R 137	0.390625000	Y	0.0000000	0.0000
							R 138	0.048830000	Y	0.0000000	0.0000
							R 141	0.390630000	Y	0.0000000	0.0000
							R 147			0.0000000	0.0000

DENISE K. BECKHAM

ARROWHEAD-GRAYBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED WORKING INTERESTS

CHEVRON EL&P

TRACT PARTICIPATION	PERCENT	M.I. OWNER	M.I. PERCENT	Y BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY	BALLOTTED
19	0.9038850										
R 178		Newby-Forsee Trust					0.15625000	Y	0.1562500	1.2500	
R 157		Petco limited					0.09766000	0.000000	0.000000	0.0000	
R 170		Robert E. King No. 2					0.09766000	0.000000	0.000000	0.0000	
R 190		Southwest Royalties, Inc.					0.17577000	0.000000	0.000000	0.0000	
R 196		Stephen N. James					0.19530000	Y	0.1953000	1.5624	
R 202		The Home Stake Royalty Corporation					0.09766000	0.000000	0.000000	0.0000	
R 212		Tom R. Cone					0.05859300	Y	0.0585930	0.4687	
R 218		William A. Kolliker					0.04883000	0.000000	0.000000	0.0000	
R 219		William Coleman Ransom					0.03255300	0.000000	0.000000	0.0000	
*19	0.9038850		100.000000000	0.0000000			12.500000000		4.6126100	36.9009	
20	0.0000000	Chevron U.S.A. Inc	100.000000000	Y	0.0000000						
R 008		Atlantic Richfield Company					0.39063000	0.000000	0.0000000	0.0000	
R 010		B. A. Christmas, Jr.					0.19531000	0.000000	0.0000000	0.0000	
R 011		Beatrice V. Cook					0.07813000	Y	0.0781300	0.6250	
R 012		Betty Moran Rice					0.39063000	Y	0.3906300	3.1250	
R 014		Billie June Crow					0.39062000	Y	0.3906200	3.1250	
R 017		Bradford Ace Christmas					0.04883000	Y	0.0488300	0.3906	
R 018		Bradley Nominee Corporation					0.39063000	0.000000	0.0000000	0.0000	
R 021		C. W. Grimes Trust					0.39063000	0.000000	0.0000000	0.0000	
R 022		Candy Christmas					0.04882000	0.000000	0.0000000	0.0000	
R 025		Cathie Cone Auvenshine					0.05859000	Y	0.0585900	0.4687	
R 026		Cecil Frank Wilson					0.07813000	0.000000	0.0000000	0.0000	
R 027		Charles B. Brownlee					0.58593000	Y	0.5859300	4.6874	
R 029		Charles Daniel Ransom					0.03255300	0.000000	0.0000000	0.0000	
R 033		Charon Oil Group					0.58593000	Y	0.5859300	4.6874	
R 035		Clifford Cone					0.05859000	0.000000	0.0000000	0.0000	
R 040		D. C. Trust					0.05859000	0.000000	0.0000000	0.0000	
R 047		Doris B. Neal					0.58593000	0.000000	0.0000000	0.0000	
R 059		Eunice James Gray					0.19531000	Y	0.1953100	1.5625	
R 062		Fancher Archer					0.09766000	0.000000	0.0000000	0.0000	
R 069		Geodyne Resources, Inc.					1.75780000	0.000000	0.0000000	0.0000	
R 071		George W. Brownlee Estate					0.58593000	0.000000	0.0000000	0.0000	
R 072		Gwen G. Hall					0.15626000	Y	0.1562600	1.2501	
R 082		Helten Jane Christmas Barbry					0.04883000	0.000000	0.0000000	0.0000	
R 084		Higgins Trust, Inc.					0.78125000	0.000000	0.0000000	0.0000	
R 090		Jacob M. Green Estate					0.03906000	0.000000	0.0000000	0.0000	
R 104		Joyce Ann Brown					0.39063000	Y	0.3906300	3.1250	
R 106		June D. Speight					0.39063000	0.000000	0.0000000	0.0000	
R 107		Katherine K. McIntyre Revocable Trust					0.04883000	0.000000	0.0000000	0.0000	
R 108		Kathleen Cone Estate					0.29296000	Y	0.2929600	2.3437	
R 109		Kelly H. Baxter					0.05859000	0.000000	0.0000000	0.0000	
R 110		Kenneth G. Cone					0.01953100	Y	0.0195310	0.1562	
R 074		Kirby D. Schenck					0.39063000	0.000000	0.0000000	0.0000	
R 113		Lee Roberts					0.07813000	0.000000	0.0000000	0.0000	
R 123		Louise B. Diggles					0.58593000	Y	0.5859300	4.6874	
R 132		Marshall & Winston, Inc.					0.39063000	Y	0.3906300	3.1250	
R 137		Mary Frances Hurley					0.03255300	Y	0.0325530	0.2604	
R 138		Mary G. Moran Fagan Payne Bastden Trust					0.39062000	0.000000	0.0000000	0.0000	
R 141		Mary T. Christmas Holladay					0.04883000	0.000000	0.0000000	0.0000	
R 147		Nathan Appleman Trust					0.39063000	0.000000	0.0000000	0.0000	
R 178		Newby-Forsee Trust					0.15625000	Y	0.1562500	1.2500	
R 157		Petco limited					0.09766000	0.000000	0.0000000	0.0000	
R 161		R. F. King Estate					0.17577000	0.000000	0.0000000	0.0000	
R 290		Southwest O & G Income Fund IX-A, L.P.					0.19532000	Y	0.1953200	1.5626	
R 196		Stephen N. James					0.05859000	0.000000	0.0000000	0.0000	
R 212		Tom R. Cone					0.09766000	Y	0.0976600	0.7813	
R 236		Trio Petroleum Corporation					0.04883000	0.000000	0.0000000	0.0000	
R 218		William A. Kolliker					0.03255400	0.000000	0.0000000	0.0000	
R 219		William Coleman Ransom					0.03255400	0.000000	0.0000000	0.0000	
*20	0.0000000		100.000000000	0.0000000			12.500000000		4.7102840	37.6823	
21A	0.1405900	Chevron U.S.A. Inc	93.750000000	Y	0.1318031	R 008	Atlantic Richfield Company		0.390630000	0.0000000	0.0000

DENISE K. BECKHAM

ARROWHEAD-GRAYBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED WORKING INTERESTS

CHEVRON ELAP

TRACT PARTICIPATION	PERCENT	M.I. OWNER	M.I. PERCENT	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
21A	0.1405900	John R. Bryant	6.250000000	Y	0.0087869				
					R 010	B. A. Christmas, Jr.	0.195310000	0.0000000	0.0000
					R 011	Beatrice V. Cook	0.078130000	0.0781300	0.6250
					R 012	Betty Moran Rice	0.390630000	0.3906300	3.1250
					R 014	Billie June Crow	0.390620000	0.3906200	3.1250
					R 017	Bradford Ace Christmas	0.048830000	0.0488300	0.3906
					R 018	Bradley Nominee Corporation	0.390630000	0.0000000	0.0000
					R 021	C. W. Grimes Trust	0.390630000	0.0000000	0.0000
					R 022	Candy Christmas	0.048820000	0.0000000	0.0000
					R 025	Cathie Cone Auvenshine	0.058590000	0.0585900	0.4687
					R 026	Cecil Frank Wilson	0.078130000	0.0000000	0.0000
					R 027	Charles B. Brownlee	0.585930000	0.5859300	4.6874
					R 029	Charles Daniel Ransom	0.032553000	0.5859300	4.6874
					R 033	Charon Oll Group	0.585930000	0.0000000	0.0000
					R 040	D. C. Trust	0.058590000	0.0000000	0.0000
					R 047	Doris B. Neal	0.195310000	0.1953100	1.5625
					R 059	Eunice James Gray	0.097660000	0.0000000	0.0000
					R 062	Fancher Archer	1.757800000	0.0000000	0.0000
					R 069	Geodyne Resources, Inc.	0.585930000	0.0000000	0.0000
					R 071	George W. Brownlee Estate	0.156260000	0.1562600	1.2501
					R 072	Gwen G. Hall	0.048830000	0.0000000	0.0000
					R 082	Heleen Jane Christmas Barby	0.781250000	0.0000000	0.0000
					R 084	Higgins Trust, Inc.	0.030630000	0.0000000	0.0000
					R 090	Jacob M. Green Estate	0.390630000	0.3906300	3.1250
					R 104	Joyce Ann Brown	0.390630000	0.0000000	0.0000
					R 106	June D. Speight	0.048830000	0.0000000	0.0000
					R 107	Katherine K. McIntyre Revocable Trust	0.292960000	0.2929600	2.3437
					R 108	Kathleen Cone Estate	0.019531000	0.0195310	0.1562
					R 109	Kelly H. Baxter	0.058590000	0.0000000	0.0000
					R 110	Kenneth G. Cone	0.390630000	0.0000000	0.0000
					R 074	Kirby D. Schenck	0.078130000	0.0000000	0.0000
					R 113	Lee Roberts	0.585930000	0.5859300	4.6874
					R 123	Louise B. Diggles	0.390630000	0.3906300	3.1250
					R 132	Marshall & Winston, Inc.	0.032553000	0.0325530	0.2604
					R 137	Mary Frances Hurley	0.390620000	0.0000000	0.0000
					R 138	Mary G. Moran Fagan Payne Basden Trust	0.048830000	0.0000000	0.0000
					R 141	Mary T. Christmas Holladay	0.390630000	0.0000000	0.0000
					R 147	Nathan Appleman Trust	0.156250000	0.1562500	1.2500
					R 178	Newby-Foresee Trust	0.097660000	0.0000000	0.0000
					R 157	Petco Limited	0.097660000	0.0000000	0.0000
					R 169	Robert E. King Estate	0.175779000	0.0000000	0.0000
					R 290	Southwest O & G Income Fund IX-A, L.P.	0.195320000	0.1953200	1.5626
					R 196	Stephen N. James	0.058590000	0.0585900	0.4687
					R 212	Tom R. Cone	0.097660000	0.0976600	0.7813
					R 236	Tri-o Petroleum Corporation	0.048830000	0.0000000	0.0000
					R 218	William A. Kolliker	0.032554000	0.0000000	0.0000
					R 219	William Coleman Ransom			
*21A	0.1405900		100.000000000	Y	0.1405900		12.500000000	4.7102840	37.6823
21B	0.0000000	G. T. McAlpin Lora B. McAlpin The Moore Trust	25.000000000 25.000000000 50.000000000	Y Y Y	0.0000000 0.0000000 0.0000000		0.390630000 0.195310000 0.078130000	0.0000000 0.0000000 0.0781300	0.0000 0.0000 0.6250
					R 008	Atlantic Richfield Company	0.390630000	0.0000000	0.0000
					R 010	B. A. Christmas, Jr.	0.078130000	0.0781300	0.6250
					R 011	Beatrice V. Cook	0.390630000	0.3906300	3.1250
					R 012	Betty Moran Rice	0.390630000	0.3906300	3.1250
					R 014	Billie June Crow	0.390620000	0.3906200	3.1250
					R 017	Bradford Ace Christmas	0.048830000	0.0488300	0.3906
					R 018	Bradley Nominee Corporation	0.390630000	0.0000000	0.0000
					R 021	C. W. Grimes Trust	0.390630000	0.0000000	0.0000
					R 022	Candy Christmas	0.048820000	0.0000000	0.0000
					R 025	Cathie Cone Auvenshine	0.058590000	0.0585900	0.4687
					R 026	Cecil Frank Wilson	0.078130000	0.0000000	0.0000
					R 027	Charles B. Brownlee	0.585930000	0.5859300	4.6874
					R 029	Charles Daniel Ransom	0.032553000	0.5859300	4.6874
					R 033	Charon Oll Group	0.585930000	0.0000000	0.0000
					R 040	D. C. Trust	0.058590000	0.0000000	0.0000
					R 047	Doris B. Neal	0.195310000	0.1953100	1.5625
					R 059	Eunice James Gray	0.097660000	0.0000000	0.0000
					R 062	Fancher Archer	1.757800000	0.0000000	0.0000
					R 069	Geodyne Resources, Inc.	0.585930000	0.0000000	0.0000
					R 071	George W. Brownlee Estate	0.156260000	0.1562600	1.2501
					R 072	Gwen G. Hall	0.048830000	0.0000000	0.0000
					R 082	Heleen Jane Christmas Barby	0.781250000	0.0000000	0.0000
					R 084	Higgins Trust, Inc.	0.030630000	0.0000000	0.0000
					R 090	Jacob M. Green Estate	0.390630000	0.3906300	3.1250
					R 104	Joyce Ann Brown	0.390630000	0.0000000	0.0000
					R 106	June D. Speight	0.048830000	0.0000000	0.0000
					R 107	Katherine K. McIntyre Revocable Trust	0.292960000	0.2929600	2.3437
					R 108	Kathleen Cone Estate	0.019531000	0.0195310	0.1562
					R 109	Kelly H. Baxter	0.058590000	0.0000000	0.0000
					R 110	Kenneth G. Cone	0.390630000	0.0000000	0.0000
					R 074	Kirby D. Schenck	0.078130000	0.0000000	0.0000
					R 113	Lee Roberts	0.585930000	0.5859300	4.6874
					R 123	Louise B. Diggles	0.390630000	0.3906300	3.1250
					R 132	Marshall & Winston, Inc.	0.032553000	0.0325530	0.2604
					R 137	Mary Frances Hurley	0.390620000	0.0000000	0.0000
					R 138	Mary G. Moran Fagan Payne Basden Trust	0.048830000	0.0000000	0.0000
					R 141	Mary T. Christmas Holladay	0.390630000	0.0000000	0.0000
					R 147	Nathan Appleman Trust	0.156250000	0.1562500	1.2500
					R 178	Newby-Foresee Trust	0.097660000	0.0000000	0.0000
					R 157	Petco Limited	0.097660000	0.0000000	0.0000
					R 169	Robert E. King Estate	0.175779000	0.0000000	0.0000
					R 290	Southwest O & G Income Fund IX-A, L.P.	0.195320000	0.1953200	1.5626
					R 196	Stephen N. James	0.058590000	0.0585900	0.4687
					R 212	Tom R. Cone	0.097660000	0.0976600	0.7813
					R 236	Tri-o Petroleum Corporation	0.048830000	0.0000000	0.0000
					R 218	William A. Kolliker	0.032554000	0.0000000	0.0000
					R 219	William Coleman Ransom			

DENISE K. BECKHAM

ARROWHEAD-GRAYBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED WORKING INTERESTS

CHEVRON ELAP

TRACT PARTICIPATION	PERCENT	W.I. OWNER	W.I. PERCENT	BALLOTTED / N PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	BALLOTTED / N ROYALTY	% TR. ROY BALLOTTED
21B	0.0000000								
					R 035 Clifford Cone		0.058590000	0.0000000	0.0000
					R 040 D. C. Trust		0.058590000	0.0000000	0.0000
					R 047 Doris B. Neal		0.585930000	0.0000000	0.0000
					R 059 Eunice James Gray		0.195310000	0.1953100	1.5625
					R 062 Fancher Archer		0.097660000	0.0000000	0.0000
					R 069 Geodyne Resources, Inc.		1.757800000	0.0000000	0.0000
					R 071 George W. Brownlee Estate		0.585930000	0.0000000	0.0000
					R 072 Gwen G. Hall		0.156260000	0.1562600	1.2501
					R 082 Helen Jane Christmas Barby		0.048830000	0.0000000	0.0000
					R 084 Higgins Trust, Inc.		0.781250000	0.0000000	0.0000
					R 090 Jacob M. Green Estate		0.039060000	0.0000000	0.0000
					R 104 Joyce Ann Brown		0.390630000	0.3906300	3.1250
					R 106 June D. Speight		0.390630000	0.0000000	0.0000
					R 107 Katherine K. McIntyre Revocable Trust		0.048830000	0.0000000	0.0000
					R 108 Kathleen Come Estate		0.292960000	0.2929600	2.3437
					R 109 Kelly H. Baxter		0.019531000	0.0195310	0.1562
					R 110 Kenneth G. Cone		0.058590000	0.0000000	0.0000
					R 074 Kirby D. Schenck		0.390630000	0.0000000	0.0000
					R 113 Lee Roberts		0.078130000	0.0000000	0.0000
					R 123 Louise B. Diggles		0.585930000	0.5859300	4.6874
					R 132 Marshall & Winston, Inc.		0.390630000	0.3906300	3.1250
					R 137 Mary Frances Hurley		0.032553000	0.0325530	0.2604
					R 138 Moran Fagan Payne Basden Trust		0.390620000	0.0000000	0.0000
					R 141 Mary T. Christmas Holladay		0.048830000	0.0000000	0.0000
					R 147 Nathan Appleman Trust		0.390630000	0.0000000	0.0000
					R 178 Newby-Foresee Trust		0.156250000	0.1562500	1.2500
					R 157 Petco Limited		0.097660000	0.0000000	0.0000
					R 169 Robert E. King Estate		0.097660000	0.0000000	0.0000
					R 290 Southwest O & G Income Fund IX-A, L.P.		0.175779000	0.0000000	0.0000
					R 196 Stephen N. James		0.195320000	0.1953200	1.5626
					R 212 Tom R. Cone		0.058590000	0.0585900	0.4687
					R 236 Trio Petroleum Corporation		0.097660000	0.0976600	0.7813
					R 218 William A. Kolliker		0.048830000	0.0000000	0.0000
					R 219 William Coleman Ransom		0.032554000	0.0000000	0.0000
*21B	0.0000000						12.500000000	4.7102840	37.6823
21C	0.0000000	Chevron U.S.A. Inc	100.000000000	0.0000000	R 008 Atlantic Richfield Company		0.390630000	0.0000000	0.0000
					R 010 B. A. Christmas, Jr.		0.195310000	0.0000000	0.0000
					R 011 Beatrice V. Cook		0.078130000	0.0781300	0.6250
					R 012 Betty Moran Rice		0.390630000	0.3906300	3.1250
					R 014 Billie June Crow		0.390620000	0.3906200	3.1250
					R 017 Bradford Ace Christmas		0.048830000	0.0488300	0.3906
					R 018 Bradley Nominee Corporation		0.390630000	0.0000000	0.0000
					R 021 C. W. Grimes Trust		0.390630000	0.0000000	0.0000
					R 022 Candy Christmas		0.048820000	0.0000000	0.0000
					R 025 Cathie Come Auvenshine		0.058590000	0.0585900	0.4687
					R 026 Cecil Frank Wilson		0.078130000	0.0000000	0.0000
					R 027 Charles B. Brownlee		0.585930000	0.5859300	4.6874
					R 029 Charles Daniel Ransom		0.032553000	0.0000000	0.0000
					R 033 Charon Oil Group		0.585930000	0.5859300	4.6874
					R 035 Clifford Cone		0.058590000	0.0000000	0.0000
					R 040 D. C. Trust		0.058590000	0.0000000	0.0000
					R 047 Doris B. Neal		0.585930000	0.0000000	0.0000
					R 059 Eunice James Gray		0.195310000	0.1953100	1.5625
					R 062 Fancher Archer		0.097660000	0.0000000	0.0000
					R 069 Geodyne Resources, Inc.		1.757800000	0.0000000	0.0000
					R 071 George W. Brownlee Estate		0.585930000	0.0000000	0.0000
					R 072 Gwen G. Hall		0.156260000	0.1562600	1.2501
					R 082 Helen Jane Christmas Barby		0.048830000	0.0000000	0.0000
					R 084 Higgins Trust, Inc.		0.781250000	0.0000000	0.0000
					R 090 Jacob M. Green Estate		0.039060000	0.0000000	0.0000
					R 104 Joyce Ann Brown		0.390630000	0.3906300	3.1250
					R 106 June D. Speight		0.390630000	0.0000000	0.0000

DENISE K. BECKHAM

ARROWHEAD-GRAVBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED WORKING INTERESTS

CHEVRON ELBP

TRACT	PERCENT PARTICIPATION	M.I. OWNER	M.I. PERCENT	N	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
21C	0.0000000										
		R 107 Katherine K. McIntyre Revocable Trust	0.048830000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 108 Kathleen Cone Estate	0.292960000	Y	0.292960000	0.292960000	0.292960000	0.292960000	Y	0.292960000	2.3437
		R 109 Kelly H. Baxter	0.019531000	Y	0.019531000	0.019531000	0.019531000	0.019531000	Y	0.019531000	0.1562
		R 110 Kenneth G. Cone	0.058590000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 074 Kirby D. Schenck	0.390630000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 113 Lee Roberts	0.078130000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 123 Louise B. Diggles	0.585930000	Y	0.585930000	0.585930000	0.585930000	0.585930000	Y	0.585930000	4.6874
		R 132 Marshall & Winston, Inc.	0.390630000	Y	0.390630000	0.390630000	0.390630000	0.390630000	Y	0.390630000	3.1250
		R 137 Mary Frances Hurley	0.032553000	Y	0.032553000	0.032553000	0.032553000	0.032553000	Y	0.032553000	0.2604
		R 138 Mary G. Moran Fagan Payne Basden Trust	0.390620000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 141 Mary T. Christmas Holladay	0.048830000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 147 Nathan Appelman Trust	0.390630000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 178 Newby-foresee Trust	0.156250000	Y	0.156250000	0.156250000	0.156250000	0.156250000	Y	0.156250000	1.2500
		R 157 Petco Limited	0.097660000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 161 R. E. King Estate	0.097660000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 290 Southwest O & G Income Fund IX-A, L.P.	0.115779000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 196 Stephen N. James	0.195320000	Y	0.195320000	0.195320000	0.195320000	0.195320000	Y	0.195320000	1.5626
		R 212 Tom R. Cone	0.058590000	Y	0.058590000	0.058590000	0.058590000	0.058590000	Y	0.058590000	0.4687
		R 236 Trio Petroleum Corporation	0.097660000	Y	0.097660000	0.097660000	0.097660000	0.097660000	Y	0.097660000	0.7813
		R 218 William A. Kolliker	0.048830000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 219 William Coleman Ransom	0.032554000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
*21C	0.0000000		100.000000000	Y	0.0000000	12.500000000	4.7102840	4.7102840	Y	37.6823	
22	14.4709290	Chevron U.S.A. Inc	100.000000000	Y	14.4709290	3.374200000	0.0000000	0.0000000	Y	0.0000000	0.0000
		MI 04 Amoco Production Company	3.151800000	Y	3.151800000	3.151800000	3.151800000	3.151800000	Y	3.151800000	25.2144
		R 028 Charles H. Price, II	0.350200000	Y	0.350200000	0.350200000	0.350200000	0.350200000	Y	0.350200000	2.8016
		R 042 David E. Price	3.374200000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		R 118 Linwood Securities Trust	1.124800000	Y	1.124800000	1.124800000	1.124800000	1.124800000	Y	1.124800000	8.9984
		R 230 Mack H. Woolridge	1.124800000	Y	1.124800000	1.124800000	1.124800000	1.124800000	Y	1.124800000	0.0000
		R 129 Main Street Holding Co.	0.000000000	Y	0.000000000	0.000000000	0.000000000	0.000000000	Y	0.000000000	0.0000
*22	14.4709290		100.000000000	Y	14.4709290	12.500000000	4.6268000	4.6268000	Y	37.0144	
23	0.3094550	Chevron U.S.A. Inc	68.860208000	Y	0.2131532	4.675000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Larry Nermyr	0.781250000	Y	0.0000000	7.825000000	7.825000000	7.825000000	Y	7.825000000	62.6000
		Meridian Oil, Inc.	13.671875000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Trust U/D Donaldson Brown	16.666667000	Y	0.0515758	12.500000000	7.8250000	7.8250000	Y	62.6000	
*23	0.3094550		100.000000000	Y	0.2647290	12.500000000	7.8250000	7.8250000	Y	62.6000	
24A	0.0000000	Chevron U.S.A. Inc	68.860208000	Y	0.0000000	4.675000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Larry Nermyr	0.781250000	Y	0.0000000	7.825000000	7.825000000	7.825000000	Y	7.825000000	62.6000
		Meridian Oil, Inc.	13.671875000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Trust U/D Donaldson Brown	16.666667000	Y	0.0000000	12.500000000	7.8250000	7.8250000	Y	62.6000	
*24A	0.0000000		100.000000000	Y	0.0000000	12.500000000	7.8250000	7.8250000	Y	62.6000	
24B	0.3382910	Burton Veteo	2.040826000	Y	0.0000000	4.675000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Chevron U.S.A. Inc	35.546675000	Y	0.1202519	7.825000000	7.825000000	7.825000000	Y	7.825000000	62.6000
		Dasco Energy Corp.	20.408155000	Y	0.0690390	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		David Mussett	0.499999000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Larry Nermyr	0.781250000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Marian Mussett	8.683691000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Meridian Oil, Inc.	13.671875000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Para Mia, Inc.	18.367329000	Y	0.0000000	12.500000000	7.8250000	7.8250000	Y	62.6000	
*24B	0.3382910		100.000000000	Y	0.1892909	12.500000000	7.8250000	7.8250000	Y	62.6000	
24C	0.0000000	Borrogo Properties, Inc.	36.734657000	Y	0.0000000	4.675000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Burton Veteo	4.081652000	Y	0.0000000	7.825000000	7.825000000	7.825000000	Y	7.825000000	62.6000
		Dasco Energy Corp.	40.816310000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		David Mussett	0.999999000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000
		Marian Mussett	17.367382000	Y	0.0000000	0.0000000	0.0000000	0.0000000	Y	0.0000000	0.0000

DENISE K. BECKHAM

TRACT PARTICIPATION	PERCENT	M.I. OWNER	M.I. PERCENT	N PARTICIPATION	BALLOTTED	OWNER	ROYALTY	ROYALTY	N	BALLOTTED	* TR. ROY	BALLOTTED
					Y		OWNER	ROYALTY		Y		
*24C	0.0000000		100.000000000		0.0000000					7.8250000	62.6000	
25A	0.0000000	Chevron U.S.A. Inc Mary D. Fleming Walsh Trust U/D Donaldson Brown	22.222142000 66.666667000 11.111111000	Y	0.0000000	R 038	Colonial Securities Co. State Street Bank & Trust Co.	4.675000000 7.825000000	Y	0.0000000 7.8250000	0.0000 62.6000	
*25A	0.0000000		99.999920000		0.0000000			12.500000000		7.8250000	62.6000	
25B	1.1151900	Burton Veteo Dasco Energy Corp. David Mussett Marian Mussett Mary D. Fleming Walsh Para Ma, Inc.	1.388890000 13.888897000 0.333339000 5.222204000 66.666667000 12.500003000	Y	0.0000000	R 038	Colonial Securities Co. State Street Bank & Trust Co.	4.675000000 7.825000000	Y	0.0000000 7.8250000	0.0000 62.6000	
*25B	1.1151900		100.000000000		0.1548876			12.500000000		7.8250000	62.6000	
25C	0.0000000	Borrego Properties, Inc. Burton Veteo Dasco Energy Corp. David Mussett Marian Mussett	37.500010000 4.166670000 41.666690000 3.400010000 13.266620000	Y	0.0000000	R 038	Colonial Securities Co. State Street Bank & Trust Co.	4.675000000 7.825000000	Y	0.0000000 7.8250000	0.0000 62.6000	
*25C	0.0000000		100.000000000		0.0000000			12.500000000		7.8250000	62.6000	
26A	3.3757450	Chevron U.S.A. Inc	100.000000000	Y	3.3757450	R 001	A. J. Trammell	0.000400000	Y	0.0000000	0.0000	
						R 002	Alvin Luskey	0.058900000	Y	0.0589000	0.4712	
						R 003	Anderson Carter	0.334800000	Y	0.3348000	2.6784	
						R 005	Annie Taylor Estate	0.005230000	Y	0.0052300	0.0418	
						R 009	Athenia M. Hunt	0.000030000	Y	0.0000000	0.0000	
						R 008	Atlantic Richfield Company	0.532900000	Y	0.0000000	0.0000	
						R 286	ARCO Petroleum Products Co.	0.229700000	Y	0.0000000	0.0000	
						R 010	B. A. Christinas, Jr.	0.790600000	Y	0.0000000	0.0000	
						R 011	Beatrice V. Cook	0.039000000	Y	0.0390000	0.3120	
						R 012	Betty Moran Rice	0.167400000	Y	0.1674000	1.3392	
						R 016	Boys Club of America	0.005600000	Y	0.0000000	0.0000	
						R 017	Bradford Ace Christmas	0.316230000	Y	0.3162300	2.5298	
						R 019	Braille Institute of America, Inc.	0.258300000	Y	0.0000000	0.0000	
						R 020	Buster Trammell	0.000400000	Y	0.0004000	0.0032	
						R 022	Candy Christmas	0.316230000	Y	0.0000000	0.0000	
						R 025	Cathie Cone Auvenshine	0.011160000	Y	0.0111600	0.0893	
						R 026	Cecil Frank Wilson	0.039100000	Y	0.0000000	0.0000	
						R 235	Charles F. Doornbos Revocable Trust	0.049600000	Y	0.0496000	0.3968	
						R 031	Charles Pflie Trust	0.083700000	Y	0.0837000	0.6636	
						R 032	Charlotte Francis Weidon	0.009300000	Y	0.0093000	0.0744	
						R 035	Clifford Cone	0.011160000	Y	0.0000000	0.0000	
						W1 14	Conoco, Inc.	0.055800000	Y	0.0558000	0.4464	
						R 234	Cross Timbers Oil Company, L.P.	0.099200000	Y	0.0992000	0.7936	
						R 040	D. C. Trust	0.011160000	Y	0.0000000	0.0000	
						R 041	Daniel Trammell Estate	0.000400000	Y	0.0004000	0.0032	
						R 043	David Luskey	0.058900000	Y	0.0589000	0.4712	
						R 045	Della Long	0.000400000	Y	0.0004000	0.0032	
						R 048	Dosha Gilbert	0.000400000	Y	0.0004000	0.0032	
						R 051	Edgar Lewis Killingsworth	0.009300000	Y	0.0093000	0.0744	
						R 052	Elks National Foundation	0.005600000	Y	0.0000000	0.0000	
						R 053	Elliot Oil Company	0.055800000	Y	0.0558000	0.4464	
						R 054	Ellis Trammell	0.000400000	Y	0.0000000	0.0000	
						R 056	Emely Ann Edwards	0.000100000	Y	0.0000000	0.0000	
						R 059	Eunice James Gray	0.097950000	Y	0.0979500	0.7836	
						R 066	Frank Lynn Killingsworth	0.009300000	Y	0.0093000	0.0744	
						R 069	Geodyne Resources, Inc.	1.004400000	Y	0.0000000	0.0000	
						R 070	George Etta Emerson	0.009300000	Y	0.0093000	0.0744	
						R 072	Gwen G. Hall	0.078200000	Y	0.0782000	0.6256	

TRACT PARTICIPATION	PERCENT	M.I. OWNER	M.I. PERCENT	Y / N	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
268	0.1018430										
		R 070	George Etta Emerson			R 070	George Etta Emerson	0.0093000000	Y	0.0093000	0.0744
		R 072	Gwen G. Hall			R 072	Gwen G. Hall	0.0782000000	Y	0.0782000	0.6256
		R 078	Harmon Hess, Jr.			R 078	Harmon Hess, Jr.	0.0003200000	Y	0.0000000	0.0000
		R 081	Harvey Roberts			R 081	Harvey Roberts	0.0026200000	Y	0.0000000	0.0000
		R 082	Helen Jane Christmas Barbry			R 082	Helen Jane Christmas Barbry	0.3162200000	Y	0.0000000	0.0000
		R 083	Hendrick Memorial Hospital			R 083	Hendrick Memorial Hospital	0.1116000000	Y	0.1116000	0.8928
		R 084	Higgins Trust, Inc.			R 084	Higgins Trust, Inc.	0.8929000000	Y	0.0000000	0.0000
		R 086	Howard Payne College			R 086	Howard Payne College	0.0288700000	Y	0.0288700	0.2310
		R 087	Ira Jo Briscoe			R 087	Ira Jo Briscoe	0.0003300000	Y	0.0000000	0.0000
		R 261	J. W. Neal			R 261	J. W. Neal	0.1116000000	Y	0.1116000	0.8928
		R 287	James G. Bruton			R 287	James G. Bruton	0.0418500000	Y	0.0418500	0.3348
		R 092	James R. Cravens Trust			R 092	James R. Cravens Trust	0.3906000000	Y	0.0000000	0.0000
		R 093	Jean Anderson Simpson			R 093	Jean Anderson Simpson	0.0001000000	Y	0.0001000	0.0008
		R 094	Jimmie Otis Hess			R 094	Jimmie Otis Hess	0.0003300000	Y	0.0003300	0.0026
		R 095	Joe & Jessie Crump Fund #2312			R 095	Joe & Jessie Crump Fund #2312	0.0558000000	Y	0.0000000	0.0000
		R 097	John Albert Hess			R 097	John Albert Hess	0.0003300000	Y	0.0000000	0.0000
		R 098	John B. Whitley			R 098	John B. Whitley	0.0032500000	Y	0.0032500	0.0260
		R 099	John H. Hendrix Corp.			R 099	John H. Hendrix Corp.	0.0093000000	Y	0.0000000	0.0000
		R 100	John Henry Killingsworth			R 100	John Henry Killingsworth	0.2354000000	Y	0.0093000	0.0744
		R 101	John W. Burress			R 101	John W. Burress	0.0139500000	Y	0.0139500	0.1116
		R 102	John W. Burress & Constance F. Burress			R 102	John W. Burress & Constance F. Burress	0.0158700000	Y	0.0158700	0.1270
		R 103	Johnnie Trammell			R 103	Johnnie Trammell	0.0004100000	Y	0.0000000	0.0000
		R 104	Joyce Ann Brown			R 104	Joyce Ann Brown	0.0004100000	Y	1.1067000	8.8536
		R 105	Julie Hess Hoshor			R 105	Julie Hess Hoshor	0.0003300000	Y	0.0000000	0.0000
		R 108	Kathleen Cone Estate			R 108	Kathleen Cone Estate	0.0558000000	Y	0.0558000	0.4464
		R 110	Kenneth G. Cone			R 110	Kenneth G. Cone	0.1116000000	Y	0.0000000	0.0000
		R 111	Kevin Hess			R 111	Kevin Hess	0.0003200000	Y	0.0000000	0.0000
		R 112	Kirby D. Schenck			R 112	Kirby D. Schenck	0.1116000000	Y	0.0000000	0.0000
		R 112	L. O. Carroll			R 112	L. O. Carroll	0.0558000000	Y	0.0000000	0.0000
		R 113	Lee Roberts			R 113	Lee Roberts	0.0390000000	Y	0.0000000	0.0000
		R 116	Leo Wiman			R 116	Leo Wiman	0.0588000000	Y	0.0588000	0.4704
		R 117	Lillian Myers			R 117	Lillian Myers	0.0372000000	Y	0.0000000	0.2976
		R 121	Lorene Jane Hess			R 121	Lorene Jane Hess	0.0003200000	Y	0.0000000	0.4704
		R 122	Louis Luskey			R 122	Louis Luskey	0.0588000000	Y	0.0588000	1.7856
		R 124	Louise C. Summers			R 124	Louise C. Summers	0.0004000000	Y	0.0000000	0.0000
		R 126	Lucy Mae Littrell			R 126	Lucy Mae Littrell	0.2232000000	Y	0.2232000	1.7856
		R 128	Maggie Roberts Wallace			R 128	Maggie Roberts Wallace	0.0026200000	Y	0.0000000	0.0000
		R 131	Margaret Elizabeth Burns			R 131	Margaret Elizabeth Burns	0.0093000000	Y	0.0093000	0.0744
		R 133	Martha Farris			R 133	Martha Farris	0.0004000000	Y	0.0004000	0.0032
		R 134	Mary Allison			R 134	Mary Allison	0.0004000000	Y	0.0000000	0.0000
		R 138	Mary G. Moran Fagan Payne Basden Trust			R 138	Mary G. Moran Fagan Payne Basden Trust	0.1674000000	Y	0.0000000	0.0000
		R 141	Mary T. Christmas Holladay			R 141	Mary T. Christmas Holladay	0.3162200000	Y	0.0000000	0.0000
		R 289	Myrtle Pflie Mineral Trust			R 289	Myrtle Pflie Mineral Trust	0.0083700000	Y	0.0000000	0.0000
		R 149	New Mexico Boys Ranch, Inc.			R 149	New Mexico Boys Ranch, Inc.	0.0056000000	Y	0.0056000	0.0448
		R 150	Norma Jean Talbert			R 150	Norma Jean Talbert	0.0052300000	Y	0.0000000	0.0000
		R 151	Otis S. Hess			R 151	Otis S. Hess	0.0013100000	Y	0.0013100	0.0105
		R 152	Otis E. Ramsey, Jr.			R 152	Otis E. Ramsey, Jr.	0.0854400000	Y	0.0000000	0.0000
		R 153	Otis Trammell			R 153	Otis Trammell	0.0004100000	Y	0.0004100	0.0033
		W1 36	Oxy, U.S.A.			W1 36	Oxy, U.S.A.	0.3534000000	Y	0.3534000	2.8272
		R 262	Patricia H. Neal			R 262	Patricia H. Neal	0.1116000000	Y	0.1116000	0.8928
		R 156	Patrick J. Leonard			R 156	Patrick J. Leonard	0.0093000000	Y	0.0093000	0.0744
		R 157	Petco Limited			R 157	Petco Limited	0.0496000000	Y	0.0000000	0.0000
		R 160	Powhatan & Beverly T. Carter Rev. Trust			R 160	Powhatan & Beverly T. Carter Rev. Trust	0.3348000000	Y	0.3348000	2.6784
		R 161	R. E. King Estate			R 161	R. E. King Estate	0.0558000000	Y	0.0000000	0.0000
		R 162	R. H. Trammell			R 162	R. H. Trammell	0.0004100000	Y	0.0000000	0.0000
		R 164	Randolph E. Wilson			R 164	Randolph E. Wilson	0.0372000000	Y	0.0000000	0.0000
		R 166	Rebel Oil Company			R 166	Rebel Oil Company	0.0744000000	Y	0.0744000	0.5952
		R 167	Regents of The University of New Mexico			R 167	Regents of The University of New Mexico	0.0056000000	Y	0.0000000	0.0000
		R 168	Robert Booth Kellough			R 168	Robert Booth Kellough	0.0093000000	Y	0.0093000	0.0744
		R 171	Robert J. Leonard			R 171	Robert J. Leonard	0.0930000000	Y	0.0139500	0.1116
		R 172	Robert L. E. Burress			R 172	Robert L. E. Burress	0.0139500000	Y	0.0139500	0.1116
		R 174	Roy G. Barton, Jr.			R 174	Roy G. Barton, Jr.	0.0744000000	Y	0.0744000	0.5952
		R 175	Roy S. Magruder Trust			R 175	Roy S. Magruder Trust	0.0279000000	Y	0.0000000	0.0000
		R 226	ROCA Properties, Ltd.			R 226	ROCA Properties, Ltd.	0.0124000000	Y	0.0124000	0.0992

DENISE K. BECKHAM

ARROWHEAD-GRAYBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED WORKING INTERESTS

CHEVRON EL&P

TRACT PARTICIPATION	PERCENT	W.I. OWNER	W.I. PERCENT	Y / N	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
268	0.1018430										
		R 181				Sara H. Stevati		0.00325000	Y	0.0032500	0.0280
		R 182				Savannah Hess Altman		0.00131000	Y	0.0013100	0.0105
		R 184				Selma E. Andrews Trust		0.29970000	Y	0.2997000	2.3976
		R 185				Shatluck St. Mary's School		0.00550000	Y	0.0055000	0.0440
		R 188				Southland Royalty Company		0.446400000	Y	0.0000000	0.0000
		R 191				Sprindletop Exploration Co. Inc		0.018510000	Y	0.0185100	0.1481
		R 196				Stephen N. James		0.097850000	Y	0.0978500	0.7828
		R 198				Sue Stinson Testamentary #2046-12		0.111600000	Y	0.0000000	0.0000
		R 203				The Jessie B. Crump Family Trust #1069		0.055800000	Y	0.0000000	0.0000
		R 204				The John K. Cleary Trust		0.018600000	Y	0.0000000	0.0000
		W1 31				The Moore Trust		0.074400000	Y	0.0744000	0.5952
		R 205				The Roy G. Barton, Sr. & Opal Barton Tr.		0.055800000	Y	0.0558000	0.4464
		R 207				The W. A. Yeager Group		0.024800000	Y	0.0248000	0.1984
		R 208				The Wilson Children Trust		0.003100000	Y	0.0000000	0.0000
		R 209				The Miser Oil Company		0.558000000	Y	0.5580000	4.4640
		R 210				Thelma Black		0.012400000	Y	0.0000000	0.0000
		R 211				Timothy T. Leonard		0.009300000	Y	0.0093000	0.0744
		R 212				Tom R. Cone		0.011160000	Y	0.0111600	0.0893
		R 213				Tom W. Elliston		0.031400000	Y	0.0314000	0.2512
		R 225				Trinity Properties II		0.012400000	Y	0.0000000	0.0000
		R 236				Trio Petroleum Corporation		0.005900000	Y	0.0059000	0.0472
		R 237				Velma B. Moody		0.000400000	Y	0.0000000	0.0000
		R 288				Virginia Bruton		0.033480000	Y	0.0000000	0.0000
		R 218				William A. Kolliker		0.027900000	Y	0.0000000	0.0000
		R 220				William G. Seal & Marcellyn J. Seal		0.000100000	Y	0.0001000	0.0008
		R 221				William W. Burress		0.013950000	Y	0.0139500	0.1116
		R 223				Wynant S. Wilson		0.037200000	Y	0.0372000	0.2976
*268	0.1018430							12.500000000		5.6958900	45.5671

TOTAL INTEREST BALLOTTED: WORKING ROYALTY 79.6473

DENISE K. BECKHAM

ARROWHEAD-GRAVBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED OVERRIDING INTERESTS

This includes Royalty Owners

CHEVRON EL&P

TRACT PARTICIPATION	PERCENT	O.R. OWNER	O.R. PERCENT	Y / N	BALLOTTED PARTICIPATION NUMBER	OWNER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
1A	0.8601510	Elyse S. Patterson Trust "B" H. B. Wright Estate Harold B. Bradbury Hawkins Oil & Gas, Inc. Rudite C. Bell Stanley W. Crosby, III Sue Saunders Graham The Toles Company Trust U/D Donaldson Brown	0.005000000 0.41667000 0.004353558 9.999000000 0.012644900 0.012644900 0.005000000 0.005000000 5.000000000	Y	0.0000000 0.0000000 0.0000000 0.0860065 0.0001088 0.0001088 0.0000430 0.0000000 0.0430075	U.S.A. SCHEDULE C	ROYALTY OWNER	12.500000000	Y	12.5000000	100.0000
* 1A	0.8601510		15.460310358		0.1292746	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
1B	0.0000000	Elyse S. Patterson Trust "B" H. B. Wright Estate Harold B. Bradbury Hawkins Oil & Gas, Inc. Rudite C. Bell Stanley W. Crosby, III Sue Saunders Graham Sun Operating Ltd. Ptn. The Toles Company Trust U/D Donaldson Brown	0.005000000 0.41667000 0.004353558 9.999000000 0.012644900 0.012644900 0.005000000 8.750000000 0.005000000 5.000000000	Y	0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	ROYALTY OWNER	12.500000000	Y	12.5000000	100.0000
* 1B	0.0000000		24.210310358		0.0000000	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
2	9.3721080	Elyse S. Patterson Trust "B" Lloyd Garringer Estate Mary Lee S. Reese Rudite C. Bell	0.005120000 0.0000000 1.000000000 0.0096217	Y	0.0000000 0.0000000 0.0000000 0.0096217	U.S.A. SCHEDULE C	ROYALTY OWNER	12.500000000	Y	12.5000000	100.0000
* 2	9.3721080		0.000000000		0.0000000	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
3	1.5458080	Caldwell J. Saunders Trust Elyse S. Patterson Trust "B" Lloyd Garringer Estate Mary Lee S. Reese Rudite C. Bell Stanley W. Crosby, III Sue Saunders Graham The Toles Company Woodman Perry Saunders	3.000000000 0.416670000 0.005120000 1.000000000 0.0096217 0.622440000 0.416670000 0.416670000 1.000000000	Y	0.0463742 0.0000000 0.0000000 0.0000000 0.0096217 0.0096217 0.0064409 0.0000000 0.0154581	U.S.A. SCHEDULE C	ROYALTY OWNER	12.500000000	Y	12.5000000	100.0000
* 3	1.5458080		7.500010000		0.0875166	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
4A	0.0000000		0.000000000		0.0000000	U.S.A. SCHEDULE C		12.500000000	Y	12.5000000	100.0000
* 4A	0.0000000		0.000000000		0.0000000	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
4B	0.1607790	Sohio Petroleum Company Trust U/D Donaldson Brown	9.999000000 5.000000000	Y	0.0000000 0.0080389	U.S.A. SCHEDULE C	ROYALTY OWNER	12.500000000	Y	12.5000000	100.0000
* 4B	0.1607790		14.999000000		0.0080389	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
4C	0.0000000	Sohio Petroleum Company Sun Operating Ltd. Ptn. Trust U/D Donaldson Brown	9.999000000 10.937500000 5.000000000	Y	0.0000000 0.0000000 0.0000000	U.S.A. SCHEDULE C	ROYALTY OWNER	12.500000000	Y	12.5000000	100.0000
* 4C	0.0000000		25.936500000		0.0000000	U.S.A. SCHEDULE C		12.500000000		12.5000000	100.0000
5	2.3939320		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 5	2.3939320		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000		12.5000000	100.0000
6	22.1920840		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 6	22.1920840		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000		12.5000000	100.0000

TRACT PARTICIPATION	PERCENT	O.R. OWNER	PERCENT	Y / N	BALLOTTED PARTICIPATION NUMBER	OWNER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
7	3.4915270	Franklin Energy, Partnership	0.132089000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 7	3.4915270		0.132089000		0.0000000			12.500000000		12.5000000	100.0000
8	1.9157340		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 8	1.9157340		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
9	0.0913930		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
* 9	0.0913930		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
10	2.9095050		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*10	2.9095050		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
11	2.0121710		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*11	2.0121710		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
12	2.7785370		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*12	2.7785370		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
13	0.0971370		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*13	0.0971370		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
14A	3.6631460		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*14A	3.6631460		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
14B	0.1981230		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*14B	0.1981230		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
15A	0.6088300	Andrea Singer Pollack Revocable Trust	12.500000000	Y	0.0761037	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*15A	0.6088300		12.500000000		0.0761037			12.500000000		12.5000000	100.0000
15B	0.0000000	Carolyn Loveless Schlichter Collin McMillan David Petroleum Corp. Lucinda Loveless McBride Oil & Gas Corporation Madine Pribeau Loveless Smith	0.439434000	Y	0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*15B	0.0000000		11.621106000		0.0000000			12.500000000		12.5000000	100.0000
16	9.0738100		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*16	9.0738100		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
17	15.8792970		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*17	15.8792970		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
18	0.0000000		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*18	0.0000000		0.000000000		0.0000000			12.500000000		12.5000000	100.0000
19	0.9038850		0.000000000		0.0000000	STATE OF NEW MEXICO		12.500000000	Y	12.5000000	100.0000
*19	0.9038850		0.000000000		0.0000000			12.500000000		12.5000000	100.0000

R 008 Atlantic Rightfield Company
 R 010 B. A. Christmas, Jr.
 R 011 Beatrice V. Cook

TRACT	PERCENT PARTICIPATION	O.R. OWNER	O.R. PERCENT	Y / N	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
19	0.9038850					R 012 Betty Moran Rice		0.390625000	Y	0.3906250	3.1250
						R 014 Billie June Crow		0.390630000	Y	0.3906300	3.1250
						R 017 Bradford Ace Christmas		0.048830000	Y	0.0488300	0.3906
						R 018 Bradley Nomine Corporation		0.390630000	Y	0.0000000	0.0000
						R 021 C. W. Grimes Trust		0.390630000	Y	0.0000000	0.0000
						R 022 Candy Christmas		0.048830000	Y	0.0000000	0.0000
						R 025 Cathie Cone Auvenshine		0.058593000	Y	0.0585930	0.4687
						R 026 Cecil Frank Wilson		0.078130000	Y	0.0000000	0.0000
						R 027 Charles B. Brownlee		0.585940000	Y	0.5859400	4.6875
						R 029 Charles Daniel Ransom		0.032553000	Y	0.0000000	0.0000
						R 033 Charon Oll Group		0.585930000	Y	0.5859300	4.6874
						R 035 Clifford Cone		0.058593000	Y	0.0000000	0.0000
						R 040 D. C. Trust		0.585930000	Y	0.0000000	0.0000
						R 047 Doris B. Neal		0.195300000	Y	0.1953000	1.5624
						R 059 Eunice James Gray		0.097650000	Y	0.0000000	0.0000
						R 062 Fancher Archer		0.097650000	Y	0.0000000	0.0000
						R 069 Geodyne Resources, Inc.		1.757810000	Y	0.0000000	0.0000
						R 071 George W. Brownlee Estate		0.585940000	Y	0.0000000	0.0000
						R 072 Gwen G. Hall		0.156260000	Y	0.1562600	1.2501
						R 082 Helen Jane Christmas Barbry		0.048830000	Y	0.0000000	0.0000
						R 084 Higgins Trust, Inc.		0.781250000	Y	0.0000000	0.0000
						R 090 Jacob M. Green Estate		0.039060000	Y	0.0000000	0.0000
						R 104 Joyce Ann Brown		0.390620000	Y	0.3906200	3.1250
						R 106 June D. Speight		0.390630000	Y	0.0000000	0.0000
						R 107 Katherine K. McIntyre Revocable Trust		0.048830000	Y	0.0000000	0.0000
						R 108 Kathleen Cone Estate		0.292965000	Y	0.2929650	2.3437
						R 109 Kelly H. Baxter		0.019530000	Y	0.0195300	0.1562
						R 110 Kenneth G. Cone		0.058593000	Y	0.0000000	0.0000
						R 074 Kirby D. Schenck		0.390630000	Y	0.0000000	0.0000
						R 113 Lee Roberts		0.078120000	Y	0.0000000	0.0000
						R 123 Louise B. Diggles		0.585940000	Y	0.5859400	4.6875
						R 132 Marshall & Winston, Inc.		0.390630000	Y	0.3906300	3.1250
						R 137 Mary Frances Hurley		0.032554000	Y	0.0325540	0.2604
						R 138 Mary G. Moran Fagan Payne Basden Trust		0.390625000	Y	0.0000000	0.0000
						R 141 Mary T. Christmas Holladay		0.048830000	Y	0.0000000	0.0000
						R 147 Nathan Appleman Trust		0.0000000	Y	0.0000000	0.0000
						R 178 Newby-Foresee Trust		0.156250000	Y	0.1562500	1.2500
						R 157 Petco Limited		0.097660000	Y	0.0000000	0.0000
						R 170 Robert E. King No. 2		0.097660000	Y	0.0000000	0.0000
						R 190 Southwest Royalties, Inc.		0.175770000	Y	0.0000000	0.0000
						R 196 Stephen N. James		0.195300000	Y	0.1953000	1.5624
						R 202 The Home Stake Royalty Corporation		0.097660000	Y	0.0000000	0.0000
						R 212 Tom R. Cone		0.058593000	Y	0.0585930	0.4687
						R 218 William A. Kolliker		0.048830000	Y	0.0000000	0.0000
						R 219 William Coleman Ransom		0.032553000	Y	0.0000000	0.0000
*19	0.9038850							12.500000000		4.6126100	36.9009
20	0.0000000	Carolyn Lovelless Schlicher	0.585930000	Y	0.0000000	R 008 Atlantic Richfield Company		0.390630000	Y	0.0000000	0.0000
		Colin McMillan	1.562500000	Y	0.0000000	R 010 B. A. Christmas, Jr.		0.195310000	Y	0.0000000	0.0000
		David Petroleum Corp.	2.343800000	Y	0.0000000	R 011 Beatrice V. Cook		0.078130000	Y	0.0781300	0.6250
		Ladd Petroleum Corp.	5.468700000	Y	0.0000000	R 012 Betty Moran Rice		0.390630000	Y	0.3906300	3.1250
		Lucinda Lovelless	0.585920000	Y	0.0000000	R 014 Billie June Crow		0.390620000	Y	0.3906200	3.1250
		Nadine Priedeau Lovelless Smith	1.171850000	Y	0.0000000	R 017 Bradford Ace Christmas		0.048830000	Y	0.0488300	0.3906
						R 018 Bradley Nomine Corporation		0.390630000	Y	0.0000000	0.0000
						R 021 C. W. Grimes Trust		0.390630000	Y	0.0000000	0.0000
						R 022 Candy Christmas		0.048820000	Y	0.0000000	0.0000
						R 025 Cathie Cone Auvenshine		0.058590000	Y	0.0585900	0.4687
						R 026 Cecil Frank Wilson		0.078130000	Y	0.0000000	0.0000
						R 027 Charles B. Brownlee		0.585930000	Y	0.5859300	4.6874
						R 029 Charles Daniel Ransom		0.032553000	Y	0.0000000	0.0000
						R 033 Charon Oll Group		0.585930000	Y	0.5859300	4.6874
						R 035 Clifford Cone		0.058590000	Y	0.0000000	0.0000
						R 040 D. C. Trust		0.058590000	Y	0.0000000	0.0000

DENISE K. BECKHAM

ARROWHEAD-GRAVBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED OVERRIDING INTERESTS

CHEVRON EL&P

TRACT PARTICIPATION	PERCENT	O.R. OWNER	O.R. PERCENT	N	BALLOTTED PARTICIPATION	ROYALTY OWNER	PERCENT ROYALTY	N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
21B	0.0000000									
R 290		Southwest O & G Income Fund IX-A, L.P.	0.175779000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 196		Stephen M. James	0.19532000	Y	0.1953200	0.1562600	0.15626	0.15626	0.15626	0.4687
R 212		Tom R. Cone	0.05859000	Y	0.0585900	0.0585900	0.4687	0.0585900	0.0585900	0.4687
R 236		Trio Petroleum Corporation	0.09766000	Y	0.0976600	0.0976600	0.7813	0.0976600	0.0976600	0.7813
R 218		William A. Kolliker	0.04883000	Y	0.0000000	0.0000000	0.0000	0.048830000	0.0000000	0.0000
R 219		William Coleman Ransom	0.032554000	Y	0.0000000	0.0000000	0.0000	0.032554000	0.0000000	0.0000

*21B 0.0000000 12.500000000 0.0000000 4.7102840 37.6823

TRACT PARTICIPATION	PERCENT	O.R. OWNER	O.R. PERCENT	N	BALLOTTED PARTICIPATION	ROYALTY OWNER	PERCENT ROYALTY	N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
21C	0.0000000									
R 008		Carolyn Loveless Schlicher	0.585930000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 010		Colin McMillan	1.562500000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 011		David Petroleum Corp.	2.343800000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 012		G. T. McAlpin	1.562500000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 014		Lora B. McAlpin	0.0000000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 017		Lucinda Loveless	0.585920000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 018		Madine Prideau Loveless Smith	1.171850000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 021		The Moore Trust	3.125000000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000

*21C 0.0000000 12.500000000 0.0000000 4.7102840 37.6823

TRACT PARTICIPATION	PERCENT	O.R. OWNER	O.R. PERCENT	N	BALLOTTED PARTICIPATION	ROYALTY OWNER	PERCENT ROYALTY	N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
22	14.4709290									
R 028		Amoco Production Company	3.374200000	Y	0.0000000	0.0000000	0.0000	0.0000	0.0000	0.0000
R 042		Charles H. Price, II	3.15180000	Y	3.1518000	25.2144	25.2144	3.1518000	3.1518000	25.2144
R 118		David E. Price	0.350200000	Y	0.3502000	2.8016	2.8016	0.350200000	0.3502000	2.8016
R 219		Linwood Securities Trust	3.374200000	Y	0.0000000	0.0000000	0.0000	3.374200000	0.0000000	0.0000

DENISE K. BECKHAM

CHEVRON EL&P

TRACT PARTICIPATION	PERCENT	O.R. / OWNER	O.R. / PERCENT	Y / N	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	* TR. BALLOTTED	
22	14.4709290					R 230 Mack H. Woolridge R 129 Main Street Holding Co.		1.12480000 1.12480000	Y	1.1248000 0.0000000	8.9984 0.0000	
*22	14.4709290		0.000000000		0.00000000			12.500000000		4.6268000	37.0144	
23	0.3094550					R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*23	0.3094550		0.000000000		0.00000000			12.500000000		7.8250000	62.6000	
24A	0.0000000					R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*24A	0.0000000		0.000000000		0.00000000			12.500000000		7.8250000	62.6000	
24B	0.3382910					R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*24B	0.3382910		15.000000000		0.0169145			12.500000000		7.8250000	62.6000	
24C	0.0000000	Jack Fletcher James A. Davidson Larry Nermeyr Ruth Sutton Sohio Petroleum Company Trust U/D Donaldson Brown	0.117180000 3.750000000 0.117180000 0.224370000 0.117180000 10.000000000 5.000000000		Y	R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*24C	0.0000000		19.335910000		0.00000000			12.500000000		7.8250000	62.6000	
25A	0.0000000					R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*25A	0.0000000		0.000000000		0.00000000			12.500000000		7.8250000	62.6000	
25B	1.1151900	Sohio Petroleum Company Trust U/D Donaldson Brown	3.888889000 1.944444000	Y	0.0216842	R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*25B	1.1151900		5.833333000		0.0216842			12.500000000		7.8250000	62.6000	
25C	0.0000000	Mary D. Fleming Walsh Sohio Petroleum Company Sun Operating Ltd. Ptn. Trust U/D Donaldson Brown	5.416620000 5.277753000 6.250000000 2.638877000		Y	R 038 Colonial Securities Co. R 195 State Street Bank & Trust Co.		4.675000000 7.825000000		0.0000000 7.8250000	0.0000 62.6000	
*25C	0.0000000		19.583250000		0.00000000			12.500000000		7.8250000	62.6000	
26A	3.3757450					R 001 A. J. Trammell R 002 Alvin Luskey R 003 Anderson Carter R 005 Annie Taylor Estate R 009 Athenia M. Hunt R 008 Atlantic Richfield Company R 286 ARCO Petroleum Products Co. R 010 B. A. Christmas, Jr. R 011 Beatrice V. Cook R 012 Betty Moran Rice R 016 Boys Club of America R 017 Bradford Ace Christmas R 019 Brattle Institute of America, Inc. R 020 Buster Trammell R 022 Candy Christmas R 025 Cathie Cone Auvenshine R 026 Cecil Frank Wilson		0.000400000 0.058900000 0.334800000 0.005230000 0.000330000 0.532900000 0.229700000 0.790600000 0.039000000 0.167400000 0.005600000 0.316230000 0.258300000 0.000400000 0.316230000 0.011160000 0.039100000		Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	0.0589000 0.3348000 0.0052300 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0390000 0.1674000 0.0000000 0.3162300 0.0000000 0.0004000 0.0111600 0.0000000	0.000000 0.4712 2.6784 0.0418 0.0000 0.0000 0.0000 0.0000 0.3120 1.3392 0.0000 2.5298 0.0000 0.0000 0.0893 0.0000

ARROWHEAD-GRAYBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED OVERRIDING INTERESTS

TRACT PARTICIPATION	PERCENT	O.R. / OWNER	Y / BALLOTTED PARTICIPATION NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / BALLOTTED ROYALTY	% TR. ROY BALLOTTED
26A	3.3751450						
R 235		Charles F. Doornbos Revocable Trust			0.049600000 Y	0.0496000	0.3968
R 031		Charles Pfile Trust			0.083700000 Y	0.0837000	0.6696
R 032		Charlotte Francis Weldon			0.009300000 Y	0.0093000	0.0744
R 035		Clifford Cone			0.011160000 Y	0.0000000	0.0000
W1 14		Conoco, Inc.			0.055800000 Y	0.0558000	0.4464
R 234		Cross Timbers Oil Company, L.P.			0.099200000 Y	0.0992000	0.7936
R 040		D. C. Trust			0.011160000 Y	0.0000000	0.0000
R 041		Daniel Trammell Estate			0.000400000 Y	0.0004000	0.0032
R 043		David Luskey			0.058900000 Y	0.0589000	0.4712
R 045		Delta Long			0.000400000 Y	0.0004000	0.0032
R 048		Dosha Gilbert			0.000400000 Y	0.0004000	0.0032
R 051		Edgar Lewis Killingsworth			0.009300000 Y	0.0093000	0.0744
R 052		Elks National Foundation			0.005600000 Y	0.0000000	0.0000
R 053		Elliot 011 Company			0.055800000 Y	0.0558000	0.4464
R 054		Ellis Trammell			0.000100000 Y	0.0000000	0.0000
R 056		Emely Ann Edwards			0.000100000 Y	0.0000000	0.0000
R 059		Eunice James Gray			0.097950000 Y	0.0979500	0.7836
R 066		Frank Lynn Killingsworth			0.009300000 Y	0.0093000	0.0744
R 069		Geodyne Resources, Inc.			1.004400000 Y	0.0000000	0.0000
R 070		George Etta Emerson			0.009300000 Y	0.0093000	0.0744
R 072		Gwen G. Hall			0.078200000 Y	0.0782000	0.6256
R 078		Harmon Hess, Jr.			0.000320000 Y	0.0000000	0.0000
R 081		Harvey Roberts			0.002620000 Y	0.0000000	0.0000
R 082		Heleen Jane Christmas Barby			0.316220000 Y	0.0000000	0.0000
R 083		Hendrick Memorial Hospital			0.111600000 Y	0.1116000	0.8928
R 084		Higgins Trust, Inc.			0.892900000 Y	0.0000000	0.0000
R 086		Howard Payne College			0.028870000 Y	0.0288700	0.2310
R 087		Ima Jo Britscoe			0.000330000 Y	0.0000000	0.0000
R 261		J. W. Neal			0.000330000 Y	0.0000000	0.0000
R 287		James G. Bruton			0.111600000 Y	0.1116000	0.8928
R 092		James R. Cravens Trust			0.390600000 Y	0.0000000	0.0000
R 093		Jean Anderson Simpson			0.000100000 Y	0.0001000	0.0008
R 094		Jimmie Otis Hess			0.000330000 Y	0.0003300	0.0026
R 095		Joe & Jessie Crump Fund #2312			0.055800000 Y	0.0000000	0.0000
R 097		John Albert Hess			0.000330000 Y	0.0000000	0.0000
R 098		John B. Whitely			0.003250000 Y	0.0032500	0.0260
R 099		John H. Hendrix Corp.			0.000000000 Y	0.0000000	0.0000
R 101		John Henry Killingsworth			0.009300000 Y	0.0093000	0.0744
R 102		John W. Burruss			0.013950000 Y	0.0139500	0.1116
R 103		Johnnie Trammell			0.015870000 Y	0.0158700	0.1270
R 104		Joyce Ann Brown			0.000410000 Y	0.0000000	0.0000
R 105		Julie Hess Hoshor			1.106700000 Y	1.1067000	8.8536
R 108		Kathleen Cone Estate			0.000330000 Y	0.0000000	0.0000
R 110		Kenneth G. Cone			0.055800000 Y	0.0558000	0.4464
R 111		Kevin Hess			0.011160000 Y	0.0000000	0.0000
R 074		Kirby D. Schenck			0.000320000 Y	0.0000000	0.0000
R 112		L. O. Carroll			0.111600000 Y	0.0000000	0.0000
R 113		Lee Roberts			0.055800000 Y	0.0558000	0.4464
R 116		Leo Wieman			0.039000000 Y	0.0000000	0.0000
R 117		Lillian Myers			0.058800000 Y	0.0588000	0.4704
R 121		Lorene Jane Hess			0.037200000 Y	0.0372000	0.2976
R 122		Louis Luskey			0.000320000 Y	0.0000000	0.0000
R 124		Louise C. Summers			0.000320000 Y	0.0000000	0.0000
R 126		Lucy Mae Littlell			0.058800000 Y	0.0588000	0.4704
R 128		Magie Roberts Wallace			0.223200000 Y	0.2232000	1.7856
R 131		Margaret Elizabeth Burns			0.000400000 Y	0.0000000	0.0000
R 133		Martha Farris			0.002620000 Y	0.0000000	0.0000
R 134		Mary Allison			0.009300000 Y	0.0093000	0.0744
R 138		Mary G. Moran Fagan Payne Basten Trust			0.000400000 Y	0.0004000	0.0032
R 141		Mary T. Christmas Holladay			0.000400000 Y	0.0000000	0.0000
R 289		Myrtle Pfile Mineral Trust			0.167400000 Y	0.0000000	0.0000
R 149		New Mexico Boys Ranch, Inc.			0.316220000 Y	0.0000000	0.0000
R 150		Norma Jean Talbert			0.008370000 Y	0.008370000	0.0000
					0.005600000 Y	0.0056000	0.0448
					0.005230000 Y	0.0000000	0.0000

TRACT PARTICIPATION	PERCENT	O.R. / OWNER	O.R. / BALLOTTED / N PARTICIPATION NUMBER	OWNER	ROYALTY / OWNER	PERCENT / ROYALTY	BALLOTTED / ROYALTY	% TR. ROY BALLOTTED
26A	3.3757450							
				R 151	Otis S. Hess	0.001310000	0.0013100	0.0105
				R 152	Otis E. Ramsey, Jr.	0.005440000	0.0000000	0.0000
				R 153	Otis Trammel	0.000410000	0.0004100	0.0033
				W1 36	Oxy. U.S.A.	0.353400000	0.3534000	2.8272
				R 262	Patricia H. Neal	0.111600000	0.1116000	0.8928
				R 156	Patrick J. Leonard	0.009300000	0.0093000	0.0744
				R 157	Petco limited	0.049600000	0.0000000	0.0000
				R 160	Pohatan & Beverly I. Carter Rev. Trust	0.334800000	0.3348000	2.6784
				R 161	R. E. King Estate	0.055800000	0.0000000	0.0000
				R 162	R. H. Trammel	0.000410000	0.0000000	0.0000
				R 164	Randolph E. Wilson	0.074400000	0.0744000	0.5952
				R 166	Rebel Oil Company	0.005600000	0.0000000	0.0000
				R 167	Regents of The University of New Mexico	0.009300000	0.0093000	0.0744
				R 168	Robert Booth Kellogg	0.009300000	0.0093000	0.0744
				R 171	Robert J. Leonard	0.009300000	0.0093000	0.0744
				R 172	Robert L. E. Burress	0.013950000	0.0139500	0.1116
				R 174	Roy G. Barton, Jr.	0.074400000	0.0744000	0.5952
				R 175	Roy S. Magruder Trust	0.012400000	0.0124000	0.0992
				R 226	ROCA Properties, Ltd.	0.003250000	0.0032500	0.0260
				R 181	Sara H. Stovall	0.001310000	0.0013100	0.0105
				R 182	Savannah Hess Altman	0.299700000	0.2997000	2.3976
				R 184	Selma E. Andrews Trust	0.005500000	0.0055000	0.0440
				R 185	Shattuck St. Mary's School	0.446400000	0.0000000	0.0000
				R 188	Southland Royalty Company	0.018510000	0.0185100	0.1481
				R 191	Spindletop Exploration Co. Inc	0.097850000	0.0978500	0.7828
				R 196	Stephen N. James	0.111600000	0.0000000	0.0000
				R 198	Sue Stinson Testamentary #2046-12	0.058800000	0.0000000	0.0000
				R 203	The Jessie B. Crump Family Trust #1069	0.058800000	0.0000000	0.0000
				R 204	The John K. Cleary Trust	0.018600000	0.0000000	0.0000
				W1 31	The Moore Trust	0.074400000	0.0744000	0.5952
				R 205	The Roy G. Barton, Sr. & Opal Barton Tr.	0.058800000	0.0588000	0.4464
				R 207	The W. A. Yeager Group	0.024800000	0.0248000	0.1984
				R 208	The Wilson Children Trust	0.003100000	0.0000000	0.0000
				R 209	The Wiser Oil Company	0.558000000	0.5580000	4.4640
				R 210	Thelma Black	0.012400000	0.0000000	0.0744
				R 211	Timothy T. Leonard	0.009300000	0.0093000	0.0744
				R 212	Tom R. Cone	0.011160000	0.0111600	0.0893
				R 213	Tom W. Ellison	0.031400000	0.0314000	0.2512
				R 225	Trinity Properties II	0.012400000	0.0000000	0.0000
				R 226	Trio Petroleum Corporation	0.005900000	0.0059000	0.0472
				R 236	Velma B. Woody	0.000400000	0.0000000	0.0000
				R 237	Virginia Bruton	0.033480000	0.0000000	0.0000
				R 288	Virginia Bruton	0.027900000	0.0000000	0.0000
				R 218	William A. Kolliker	0.000100000	0.0001000	0.0008
				R 220	William G. Seal & Marcellyn J. Seal	0.013950000	0.0139500	0.1116
				R 221	William M. Burress	0.037200000	0.0372000	0.2976
				R 223	Wynant S. Wilson			
*26A	3.3757450		0.000000000			12.500000000	5.6958900	45.5671
26B	0.1018430							
				R 001	A. J. Trammel	0.000400000	0.0000000	0.0000
				R 002	Alvin Luskey	0.058900000	0.0589000	0.4712
				R 003	Anderson Carter	0.334800000	0.3348000	2.6784
				R 005	Annie Taylor Estate	0.005230000	0.0052300	0.0418
				R 009	Athenia M. Hunt	0.000330000	0.0000000	0.0000
				R 008	Atlantic Richfield Company	0.532900000	0.0000000	0.0000
				R 286	ARCO Petroleum Products Co.	0.229700000	0.0000000	0.0000
				R 010	B. A. Christmas, Jr.	0.790600000	0.0000000	0.0000
				R 011	Beatrice V. Cook	0.039000000	0.0390000	0.3120
				R 012	Betty Moran Rice	0.167400000	0.1674000	1.3392
				R 016	Boys Club of America	0.005600000	0.0000000	0.0000
				R 017	Bradford Ace Christmas	0.316230000	0.3162300	2.5298
				R 019	Braile Institute of America, Inc.	0.258300000	0.0000000	0.0000
				R 020	Buster Trammel	0.000400000	0.0004000	0.0032
				R 022	Candy Christmas	0.316230000	0.0000000	0.0000

TRACT	PERCENT PARTICIPATION	O.R. OWNER	O.R. PERCENT	Y / N	BALLOTTED PARTICIPATION	OWNER NUMBER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
268	0.1018430	Jimmy D. Morey Revocable Trust 2/22/89	0.531076000	Y	0.0005409	R 025	Cathie Cone Auvenshine	0.011160000	Y	0.0111600	0.0893
		Joan Stuart Johnson	0.023603000	Y	0.0000000	R 026	Cecil Frank Wilson	0.039100000	Y	0.0000000	0.0000
		John Dan Beach	0.002459000	Y	0.0000000	R 235	Charles F. Doornbos Revocable Trust	0.049600000	Y	0.0496000	0.3968
		Joe W. Butts, Jr.	0.016391000	Y	0.0000000	R 031	Charles Pflie Trust	0.083700000	Y	0.0837000	0.6586
		L. Richard Smith, Jr.	0.004610000	Y	0.0000047	R 032	Charlotte Francis Melton	0.009300000	Y	0.0093000	0.0744
		Laveria Smith Abrahams Perry	0.009220000	Y	0.0000094	R 035	Citford Cone	0.011160000	Y	0.0000000	0.0000
		Lonelle Holder	0.004917000	Y	0.0000050	WI 14	Conoco, Inc.	0.058800000	Y	0.0588000	0.4464
		Lyeth Oil Trust	2.124307000	Y	0.0000000	R 234	Cross Timbers Oil Company, L.P.	0.099200000	Y	0.0992000	0.7936
		Marie McKinnon	0.002459000	Y	0.0000025	R 040	D. C. Trust	0.011160000	Y	0.0000000	0.0000
		Marie Shaw	0.049174000	Y	0.0000501	R 041	Daniel Trammell Estate	0.000400000	Y	0.0004000	0.0032
		Marilyn M Law Revocable Trust dtd 2/3/89	0.531076000	Y	0.0005409	R 043	David Luskey	0.058900000	Y	0.0589000	0.4712
		Mark Daniel	0.002459000	Y	0.0000000	R 045	DeJia Long	0.000400000	Y	0.0004000	0.0032
		Martha Ainsworth	0.016391000	Y	0.0000167	R 048	Dosha Gilbert	0.000400000	Y	0.0004000	0.0032
		Max Daniell	0.003278000	Y	0.0000000	R 051	Edgar Lewis Killingsworth	0.009300000	Y	0.0093000	0.0744
		Mildred Buchanan	0.009441000	Y	0.0000096	R 052	Elks National Foundation	0.005500000	Y	0.0055000	0.0464
		N.M. Bap. Foundation, Trustee	0.324547000	Y	0.0003305	R 053	Elliott Oil Company	0.055800000	Y	0.0558000	0.4464
		Nancy McKean Taylor Tice	0.017979000	Y	0.0000000	R 054	Ellis Trammell	0.000400000	Y	0.0004000	0.0032
		Nancy Smith Hurd	0.009220000	Y	0.0000094	R 056	Emely Ann Edwards	0.000100000	Y	0.0000000	0.0000
		Oliver J. Butts, Jr.	0.024587000	Y	0.0000000	R 059	Frank Lynn Killingsworth	0.097950000	Y	0.0979500	0.7836
		Onez M Rooney Test, Trust	1.062154000	Y	0.0000000	R 066	Geordyne Resources, Inc.	0.009300000	Y	0.0093000	0.0744
		Pauline Fern Pearson	0.094414000	Y	0.0000962	R 069	Geordyne Resources, Inc.	1.004400000	Y	1.0044000	0.8000
		Rachel Bedford Bowen Estate	0.413060000	Y	0.0000000	R 070	George Eta Emerson	0.009300000	Y	0.0093000	0.0744
		Rebecca Fretwell	0.016391000	Y	0.0000167	R 072	Gwen G. Hall	0.078200000	Y	0.0782000	0.6256
		Ross L. Robinson	0.477969000	Y	0.0000000	R 078	Harmon Hess, Jr.	0.000320000	Y	0.0003200	0.0026
		Thomas Record Semmes	0.118017000	Y	0.0000000	R 081	Harvey Roberts	0.002620000	Y	0.0026200	0.0020
		Viola Hayes	0.009836000	Y	0.0000000	R 082	Helene Jane Chrstmas Barbry	0.116600000	Y	0.1166000	0.8928
		Winnie Williams	0.003278000	Y	0.0000033	R 083	Hendrick Memorial Hospital	0.082900000	Y	0.0829000	0.6586
						R 084	Higgins Trust, Inc.	0.116600000	Y	0.1166000	0.8928
						R 086	Howard Payne College	0.028870000	Y	0.0288700	0.2310
						R 087	Ima Jo Briscoe	0.000330000	Y	0.0003300	0.0026
						R 261	J. W. Neal	0.116600000	Y	0.1166000	0.8928
						R 287	James G. Bruton	0.041850000	Y	0.0418500	0.3348
						R 092	James R. Cravens Trust	0.390600000	Y	0.3906000	0.3000
						R 093	Jean Anderson Stimpson	0.000100000	Y	0.0001000	0.0008
						R 094	Jimie Otis Hess	0.000330000	Y	0.0003300	0.0026
						R 095	Joe & Jessie Crump Fund #2312	0.058800000	Y	0.0588000	0.4464
						R 097	John Albert Hess	0.003250000	Y	0.0032500	0.0260
						R 098	John B. Whitley	0.235400000	Y	0.2354000	0.1856
						R 099	John H. Hendrix Corp.	0.009300000	Y	0.0093000	0.0744
						R 100	John Henry Killingsworth	0.013950000	Y	0.0139500	0.1116
						R 101	John W. Burress	0.015870000	Y	0.0158700	0.1270
						R 102	John W. Burress & Constance F. Burress	0.000410000	Y	0.0004100	0.0032
						R 103	Johnnie Trammell	1.106700000	Y	1.1067000	0.8536
						R 104	Joyce Ann Brown	0.000330000	Y	0.0003300	0.0026
						R 105	Julie Hess Hoshor	0.055800000	Y	0.0558000	0.4464
						R 108	Kathleen Cone Estate	0.011160000	Y	0.0111600	0.0893
						R 110	Kenneth G. Cone	0.000320000	Y	0.0003200	0.0026
						R 111	Kevin Hess	0.116600000	Y	0.1166000	0.8928
						R 074	Kirby D. Schenck	0.055800000	Y	0.0558000	0.4464
						R 112	L. O. Carroll	0.039000000	Y	0.0390000	0.0296
						R 113	Lee Roberts	0.058800000	Y	0.0588000	0.4464
						R 116	Leo Wiman	0.058800000	Y	0.0588000	0.4464
						R 117	Lillian Myers	0.000320000	Y	0.0003200	0.0026
						R 121	Lorene Jane Hess	0.000320000	Y	0.0003200	0.0026
						R 122	Louis Luskey	0.223200000	Y	0.2232000	1.7856
						R 124	Louise C. Summers	0.000400000	Y	0.0004000	0.0032
						R 126	Lucy Mae Littrell	0.002620000	Y	0.0026200	0.0200
						R 128	Maggie Roberts Wallace	0.009300000	Y	0.0093000	0.0744
						R 131	Margaret Elizabeth Burns	0.000400000	Y	0.0004000	0.0032
						R 133	Martha Farris	0.000400000	Y	0.0004000	0.0032
						R 134	Mary Allison	0.167400000	Y	0.1674000	0.1270
						R 138	Mary G. Moran Fagan Payne Basden Trust	0.316200000	Y	0.3162000	0.2310
						R 141	Mary T. Chrstmas Holladay	0.000320000	Y	0.0003200	0.0026
						R 289	Myrtle Pflie Mineral Trust	0.000320000	Y	0.0003200	0.0026

DENISE K. BECKHAM

ARROWHEAD-GRAVBURG UNIT, LEA COUNTY, NEW MEXICO WEDNESDAY, MAY 01, 1991
SUMMARY AND ANALYSIS OF BALLOTTED OVERRIDING INTERESTS

CHEVRON EL&P

TRACT PARTICIPATION	PERCENT	O.R. OWNER	O.R. PERCENT	Y / N	BALLOTTED PARTICIPATION	OWNER	ROYALTY OWNER	PERCENT ROYALTY	Y / N	BALLOTTED ROYALTY	% TR. ROY BALLOTTED
268	0.1018430										
R 149		New Mexico Boys Ranch, Inc.						0.00560000	Y	0.00560000	0.048
R 150		Norma Jean Talbert						0.00523000	Y	0.00000000	0.0000
R 151		Otis S. Hess						0.00131000	Y	0.00131000	0.0105
R 152		Otis E. Ramsey, Jr.						0.08544000	Y	0.00000000	0.0000
R 153		Otis Trammel						0.00041000	Y	0.00041000	0.0033
W1 36		Oxy, U.S.A.						0.35340000	Y	0.35340000	2.8272
R 262		Patricia H. Neal						0.11160000	Y	0.11160000	0.8928
R 156		Patrick J. Leonard						0.00930000	Y	0.00930000	0.0744
R 157		Petco Limited						0.04960000	Y	0.00000000	0.0000
R 160		Pomhatan & Beverly T. Carter Rev. Trust						0.33480000	Y	0.33480000	2.6784
R 161		R. E. King Estate						0.05580000	Y	0.00000000	0.0000
R 162		R. H. Trammell						0.00941000	Y	0.00000000	0.0000
R 164		Randolph E. Wilson						0.03720000	Y	0.00000000	0.0000
R 166		Rebel Oil Company						0.07440000	Y	0.07440000	0.5952
R 167		Regents of The University of New Mexico						0.00560000	Y	0.00000000	0.0000
R 168		Robert Booth Kellough						0.00930000	Y	0.00930000	0.0744
R 171		Robert J. Leonard						0.00930000	Y	0.00930000	0.0744
R 172		Robert L. E. Burress						0.01395000	Y	0.01395000	0.1116
R 174		Roy G. Barton, Jr.						0.07440000	Y	0.07440000	0.5952
R 175		Roy S. Magruder Trust						0.02790000	Y	0.00000000	0.0000
R 226		ROCA Properties, Ltd.						0.00325000	Y	0.00325000	0.0260
R 181		Sara H. Stovall						0.00131000	Y	0.00131000	0.0105
R 182		Savannah Hess Altman						0.29770000	Y	0.29770000	2.3976
R 184		Selma E. Andrews Trust						0.00550000	Y	0.00550000	0.0440
R 185		Shattuck St. Mary's School						0.04640000	Y	0.00000000	0.0000
R 188		Southland Royalty Company						0.01851000	Y	0.01851000	0.1481
R 191		Spindletop Exploration Co. Inc						0.09785000	Y	0.09785000	0.7828
R 196		Stephen N. James						0.11160000	Y	0.00000000	0.0000
R 198		Sue Stinson Testamentary #2046-12						0.05580000	Y	0.00000000	0.0000
R 203		The Jessie B. Crump Family Trust #1069						0.07440000	Y	0.07440000	0.5952
R 204		The John K. Cleary Trust						0.01860000	Y	0.00000000	0.0000
W1 31		The Moore Trust						0.07440000	Y	0.07440000	0.4464
R 205		The Roy G. Barton, Sr. & Opal Barton Tr.						0.05580000	Y	0.05580000	0.4464
R 207		The W. A. Yeager Group						0.02480000	Y	0.02480000	0.1984
R 208		The Wilson Children Trust						0.00310000	Y	0.00000000	0.0000
R 209		The Miser Oil Company						0.55800000	Y	0.55800000	4.4640
R 210		Thelma Black						0.01240000	Y	0.00000000	0.0000
R 211		Timothy T. Leonard						0.00930000	Y	0.00930000	0.0744
R 212		Tom R. Cone						0.01116000	Y	0.01116000	0.0893
R 213		Tom W. Ellison						0.03140000	Y	0.03140000	0.2512
R 225		Trinity Properties II						0.01240000	Y	0.00000000	0.0000
R 236		Trio Petroleum Corporation						0.00590000	Y	0.00590000	0.0472
R 237		Velma B. Moody						0.00040000	Y	0.00000000	0.0000
R 288		Virginia Bruton						0.03348000	Y	0.00000000	0.0000
R 218		William A. Kolliker						0.02790000	Y	0.00000000	0.0000
R 220		William G. Seal & Marcellyn J. Seal						0.00010000	Y	0.00010000	0.0008
R 221		William W. Burress						0.01395000	Y	0.01395000	0.1116
R 223		Wynant S. Wilson						0.03720000	Y	0.03720000	0.2976
*268	0.1018430		6.249999000		0.0019334			12.50000000		5.6958900	45.5671

TOTAL INTEREST BALLOTTED:

PERCENT OF OVERALL ROYALTY BALLOTS 87.1085

KELLAHIN, KELLAHIN AND AUBREY

ATTORNEYS AT LAW

EL PATIO BUILDING

117 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

TELEPHONE (505) 982-4285
TELEFAX (505) 982-2047

W. THOMAS KELLAHIN
KAREN AUBREY

CANDACE HAMANN CALLAHAN

JASON KELLAHIN
OF COUNSEL

May 22, 1991

Case 10259

Mr. William J. LeMay
Oil Conservation Division
State Land Office
Santa Fe, New Mexico 87501

HAND DELIVERED

RECEIVED

Re: Certificate of Effectiveness
for Statutory Unitization for
Chevron U.S.A., Inc.'s Arrowhead
Grayburg Unit
Order R-9482

MAY 22 1991

OIL CONSERVATION DIVISION

Dear Mr. LeMay:

On behalf of Chevron U.S.A., Inc., I would appreciate you signing and returning to me the enclosed certificate showing that Chevron has obtained the necessary seventy-five percent of both the working interest owners and royalty owners so that the referenced order can be made effective as of June 1, 1991.

Enclosed are copies of the ratification along with a letter from Denise K. Beckham, land representative for Chevron U.S.A., Inc., in which she tabulated that as of May 22, 1991 the percentage of ratification to be 79% percent for working interests and 88% for royalty interests. In addition, I have enclosed a copy of OCD Order R-9482 for your information.

If there are any questions, please call me.

Very truly yours,



W. Thomas Kellahin

WTK/tic

cc: Denise K. Beckham

1314/ltrk522.110

ARROWHEAD GRAYBURG UNIT AREA

LEA COUNTY, NEW MEXICO

CERTIFICATE OF EFFECTIVENESS

The Oil Conservation Division of the Energy, Minerals and Natural Resources Department, State of New Mexico, hereby certifies as follows:

(1) In accordance with the provision of the Statutory Unitization Act (Section 70-7-1 through 70-7-21, NMSA-1978), the Division entered Order R-9482 effective April 8, 1991 which, among other things, approved the statutory unitization of the Arrowhead Grayburg Unit Area and found that more than seventy-five percent of the working interest and seventy-five percent of the royalty interest owners in the Arrowhead Grayburg Unit Area have approved the plan for unit operations as required by Section 70-7-8, NMSA-1978.

(2) Chevron U.S.A., Inc., as operator of the said unit subsequent to the Order, has provided the Division with an affidavit and supporting documentation which verifies the Bureau of Land Management has issued its Certification-Determination dated May 15, 1991 and that the persons owning the required percentage of interests in the Arrowhead Grayburg Unit Area have approved the plan for unit operations in accordance with Division rules, regulations and the subject order.

(3) Accordingly, the Division Order R-9482 is now in full force and effect with said unit agreement and unit operating agreement shall become effective as of June 1, 1991 at 7:00 AM MST for the area known as Arrowhead Grayburg Unit Area and more specifically described as follows:

(4) The horizontal limits of said unit area should be comprised of the following described Federal, State and Fee lands in Lea County, New Mexico:

Township 21 South, Range 36 East, N.M.P.M.

Section 25: All
Section 26: SE/4 SE/4
Section 35: E/2; E/2 SW/4; SW/4 SW/4; SE/4 NW/4
Section 36: All

Township 22 South, Range 36 East, N.M.P.M.

Section 1: All
Section 2: All
Section 11: NE/4 NW/4; NE/4; NE/4 SE/4
Section 12: All
Section 13: E/2; E/2 NW/4; NW/4 NW/4; NE/4 SW/4
Section 24: NE/4 NE/4

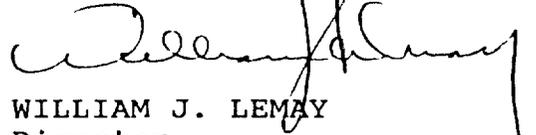
Township 22 South, Range 37 East, N.M.P.M.

Section 6: W/2 NW/4; SW/4
Section 7: W/2; S/2 SE/4; NW/4 SE/4
Section 18: All
Section 19: N/2 N/2

(5) The vertical limits of said unit area should comprise that interval which extends from an upper limit of 150 feet below sea level or the top of the Grayburg formation, whichever is shallower, to a lower limit of 1,500 feet below sea level; with the geologic marker for the top of the Grayburg formation being found to occur at 3,671 feet in the Chevron Harry Leonard (NCT-C) Well No. 20 (located 660 feet from the North line and 990 feet from the West line (Unit D) of Section 36, Township 21 South, Range 36 East, N.M.P.M., Lea County, New Mexico) as recorded by the Gearhart Compensated Neutron Log measured from the Kelly Drive Bushing elevation of 3,532 feet above sea level and dated February 25, 1985, save and except the following: in the SE/4 of Section 18, Township 22 South, Range 37 East, and N/2 N/2 of Section 19, Township 22 South, Range 37 East, N.M.P.M., Lea County, New Mexico, the lower vertical limit shall be the top of the San Andres formation which occurs at 3,804 feet below the Kelly Drive Bushing on the Dresser Atlas Compensated Density Neutron Log dated August 16, 1978 on the Zia (Exxon) New Mexico "M" Well No. 49 which is located 2,610 feet from the South line and 2,310 feet from the East line (Unit J) of Section 18, Township 22 South, Range 37 East, N.M.P.M., Lea County, New Mexico.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED THIS
23rd DAY OF MAY, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

STATE OF NEW MEXICO)

COUNTY OF SANTA FE)

The foregoing instrument was acknowledged
before me this 23rd day of May, 1991, by William J.
LeMay, director of the New Mexico Oil Conservation
Division, on behalf of said Division.



Notary Public

My Commission Expires:

Oct 28, 1993

**STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:**

**CASE NO. 10259
ORDER NO. R-9842**

**APPLICATION OF CHEVRON U.S.A.,
INC. FOR STATUTORY UNITIZATION
LEA COUNTY, NEW MEXICO.**

**Chevron U.S.A., Inc.'s
Certificate of Ratification or Approval**

State of Texas §
 § ss.
County of Midland §

Denise K. Beckham, being duly sworn upon oath deposes and states:

1. I am a petroleum landman employed by CHEVRON U.S.A. INC. in Midland, Texas and have the responsibility to identify, locate and obtain the appropriate ratifications or approval of the plan of unit operations for the Arrowhead Grayburg Unit, Lea County, New Mexico.

2. As of May 22, 1991, I have received original ratification and consent documents evidencing the signature and approval of this unit from the working interest, royalty and overriding royalty owners which I believe to be properly signed by the appropriate interest owners.

3. As of May 22, 1991, the total working interest ownership committed to the unit is in excess of 79% and the total of the royalty and overriding interest ownership committed to the unit is in excess of 88% of the total unit area.

IN WITNESS WHEREOF, this certificate is executed this 22nd day of May, 1991.

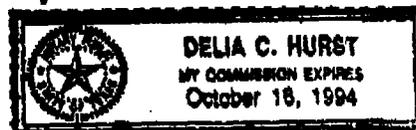
Denise K. Beckham
Denise K. Beckham

Subscribed, acknowledged and sworn to before me this 22nd day of May, 1991 by Denise K. Beckham.

Delia C. Hurst
Notary Public

My Commission Expires:

10-16-94





United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Rooswell District Office
P.O. Box 1397
Rooswell, New Mexico 88202-1397



IN REPLY
REFER TO:
NMNMS4642X
3180 (065)

Chevron U.S.A., Inc.
Attention: Denise K. Beckham
P. O. Box 1150
Midland, TX 79705

MAY 16 1991

Gentlemen:

One approved copy of the Arrowhead Grayburg Unit Agreement, Lea County, New Mexico, is enclosed. Such agreement has been assigned No. NMNMS4642X and will become effective upon submitted of a Certificate of Effectiveness pursuant to section 24 of the unit agreement. This approval is subject to like approval by the Commissioner of Public Lands and the NMOCD.

Approval of the agreement does not warrant or certify that the operator thereof, and other working interest owners hold legal or equitable title to the leases which are committed hereto.

You are requested to furnish all interested principals with appropriate evidence of this approval.

Sincerely,

For Armando A. Lopez
Armando A. Lopez
Assistant District Manager,
Minerals

1 Enclosure

CERTIFICATION-DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior, the Act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C., secs. 181, et seq., and delegated to the District Manager under the authority of 43 CFR 3180, I do hereby:

- A. Approved the attached agreement for the development and operation of the Arrowhead Grayburg unit area, State of New Mexico. This approval shall be invalid ab initio if the public interest requirement under §3183.4 (b) of this title is not met.
- B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.
- C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

R. W. Minto
ADM, Minerals
Bureau of Land Management

5-15-91
Date

NMNM84642X
Contract No.



United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Roswell District Office
P.O. Box 1397
Roswell, New Mexico 88202-1397



IN REPLY
REFER TO:
NMNMS4642X
3180 (065)

Chevron U.S.A., Inc.
Attention: Denise K. Beckham
P. O. Box 1150
Midland, TX 79705

MAY 16 1991

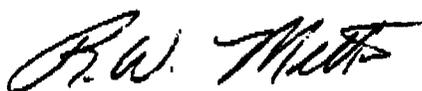
Gentlemen:

One approved copy of the Arrowhead Grayburg Unit Agreement, Lea County, New Mexico, is enclosed. Such agreement has been assigned No. NMNMS4642X and will become effective upon submitted of a Certificate of Effectiveness pursuant to section 24 of the unit agreement. This approval is subject to like approval by the Commissioner of Public Lands and the NMOCD.

Approval of the agreement does not warrant or certify that the operator thereof, and other working interest owners hold legal or equitable title to the leases which are committed hereto.

You are requested to furnish all interested principals with appropriate evidence of this approval.

Sincerely,

For 
Armando A. Lopez
Assistant District Manager,
Minerals

1 Enclosure



NEW MEXICO STATE LAND OFFICE

CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO
 Arrowhead-Grayburg Unit
 Chevron USA, Inc.
 Lea County

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, the attached Agreement for the development and operation of acreage which is described within the attached Agreement, dated November 19, 1990, which said Agreement has been executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the state, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, do hereby consent to and approve the said Agreement, however, such consent and approval being limited and restricted to such lands within the Unit Area, which are effectively committed to the Unit Agreement as of this date, and, further, that leases insofar as the lands covered thereby committed to this Unit Agreement shall be and the same are hereby amended to conform with the terms of such Unit Agreement, and said leases shall remain in full force and effect in accordance with the terms and conditions of said Agreement. This approval is subject to all of the provisions and requirements of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 21st day of May, 19 91.

Jim Breen
 COMMISSIONER OF PUBLIC LANDS
 of the State of New Mexico

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

April 9, 1991

KELLAHIN, KELLAHIN & AUBREY
Attorneys at Law
P. O. Drawer 2265
Santa Fe, New Mexico 87504

RE: CASE NO. 10259, CASE NO. 10260, CASE NO. 10261
ORDER NO. R-9482, ORDER NO. R-9483, ORDER NO. R-9484

Dear Sir:

Enclosed herewith are two copies of the each of the above-referenced Division orders recently entered in the subject cases.

Sincerely,

Florene Davidson

Florene Davidson
OC Staff Specialist

FD/sl

cc: W. F. Carr
P. Pearce
BLM - Carlsbad

BEFORE THE
OIL CONSERVATION DIVISION
NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION
OF CHEVRON U.S.A. INC.
FOR STATUTORY UNITIZATION,
LEA COUNTY, NEW MEXICO.

CASE NO. 10259

ENTRY OF APPEARANCE

COMES NOW CAMPBELL & BLACK, P.A., and hereby enters its appearance in
the above referenced case on behalf of ARCO Oil & Gas Company.

Respectfully submitted,

CAMPBELL & BLACK, P.A.

RECEIVED

FEB 28 1991

OIL CONSERVATION DIV.
SANTA FE

By: William F. Carr

WILLIAM F. CARR
Post Office Box 2208
Santa Fe, New Mexico 87504
Telephone: (505) 988-4421

ATTORNEYS FOR ARCO
OIL & GAS COMPANY

BEFORE THE
OIL CONSERVATION DIVISION
NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION
OF CHEVRON U.S.A. INC.
FOR A WATERFLOOD PROJECT,
LEA COUNTY, NEW MEXICO.

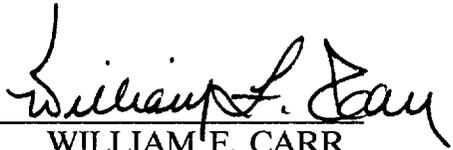
CASE NO. 10260

ENTRY OF APPEARANCE

COMES NOW CAMPBELL & BLACK, P.A., and hereby enters its appearance in
the above referenced case on behalf of ARCO Oil & Gas Company.

Respectfully submitted,

CAMPBELL & BLACK, P.A.

By: 

WILLIAM F. CARR
Post Office Box 2208
Santa Fe, New Mexico 87504
Telephone: (505) 988-4421

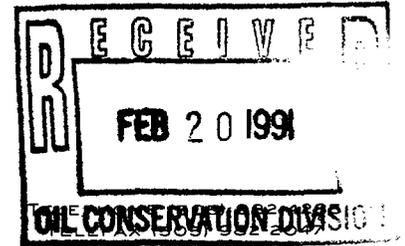
ATTORNEYS FOR ARCO
OIL & GAS COMPANY

RECEIVED

FEB 28 1991

OIL CONSERVATION DIV.
SANTA FE

KELLAHIN, KELLAHIN AND AUBREY
ATTORNEYS AT LAW
EL PATIO BUILDING
117 NORTH GUADALUPE
POST OFFICE BOX 2265
SANTA FE, NEW MEXICO 87504-2265



W. THOMAS KELLAHIN
KAREN AUBREY
CANDACE HAMANN CALLAHAN
JASON KELLAHIN
OF COUNSEL

February 20, 1991

Att. No.
10259

Mr. Michael E. Stogner
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504

Re: Chevron U.S.A., Inc.
Arrowhead Grayburg Pool
Nomenclature Case

Dear Mr. Stogner:

On February 11, 1991, on behalf of Chevron U.S.A., Inc., I filed the referenced application which has been set for hearing on March 7, 1991.

Since filing, the OCD District Office has suggested certain minor changes in the nomenclature. I have enclosed a First Amended Application to conform to those suggestions. On a second copy of the Amended application, I have highlighted in yellow the changes between the two applications.

It appears to me that the changes are not sufficient to require readvertisement nor supplemental notice to any potential party. I would think that any party already on notice of these three cases including this nomenclature case would appear or not appear based upon the substance of the cases and not on these changes in nomenclature.

Mr. Michael E. Stogner
February 20, 1991
Page 2

Accordingly, unless the Division directs otherwise, we consider the existing notice to be adequate and will not undertake the expense of a supplemental notice.

Best regards,



W. Thomas Kellahin

WTK/tic
Enclosures

cc: Bryan Cotner
Chevron U.S.A., Inc.
Post Office Box 1150
Midland, Texas 79702

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY
THE OIL CONSERVATION DIVISION FOR THE
PURPOSE OF CONSIDERING:

CASE NO.

APPLICATION OF CHEVRON U.S.A., INC.,
FOR POOL EXPANSION AND POOL CONTRACTION,
LEA COUNTY, NEW MEXICO

FIRST AMENDED
A P P L I C A T I O N

CHEVRON U.S.A., INC., by and through its attorneys,
KELLAHIN, KELLAHIN & AUBREY, hereby applies to the New
Mexico Oil Conservation Division for pool expansion and pool
contraction, Lea County, New Mexico as follows:

1. Chevron as operator of the Arrowhead Grayburg
Unit, seeks the expansion of the Arrowhead Grayburg Pool to
include the vertical limit described as the top of the
Grayburg formation or -150 feet below sea level, whichever
is shallower, to -1500 feet below sea level for the
following described in Exhibit "A", except for the NW/4NW/4
of Section 17, the SE/4 of Section 18 and the N/2N/2 of

Section 19 in T22S, R37E and the NE/4NE/4 of Section 14, T22S, R36E which shall have a lower vertical limit as being the top of the San Andres formation.

2. Various portions of both the vertical and horizontal limits of the proposed amended Arrowhead Grayburg Pool are currently dedicated to existing pools as shown on Exhibit "B".

3. The expansion and contraction of the Arrowhead Grayburg Pool and the corresponding contraction of portions of certain existing pools is necessary to permit the applicant to successfully carry out secondary recovery operations within the full oil column underlying said unit and said unit area.

4. In order to provide for the adjustment of the Arrowhead Grayburg Pool the following changes are requested to existing pools:

(a) Contract and expand horizontal limits of Arrowhead Grayburg Pool to include the unit area and the NE/4NE/4 of Section 14, T22S, R36E and the NW/4NW/4 of Section 17, T22S, R37E by:

(1) Adding:

T21S, R36E
Section 25: E/2
Section 36: NE/4NE/4

T22S, R37E
Section 18: SE/4
Section 19: N/2N/2

(2) Deleting:

T21S, R36E
Section 26: W/2; NE/4; W/2SE/4;
NE/4SE/4
Section 34: E/2
Section 35: N/2NW/4; SW/4NW/4; NW/4SW/4

T22S, R36E
Section 3: E/2
Section 11: W/2NW/4; SE/4NW/4; W/2SE/4;
SE/4SE/4
Section 13: S/2SW/4; NW/4SW/4; SW/4NW/4
Section 14: SE/4; W/2NE/4; SE/4NE/4
Section 24: S/2; NW/4; NW/4NE/4;
S/2NE/4

T22S, R37E
Section 7: NE/4SE/4
Section 6: E/2NW/4

(b) Contract horizontal limits of Langlie Mattix
Pool by deleting the following acreage from that pool:

T22S, R37E
Section 19: N/2N/2
Section 18: SE/4

(c) Contract horizontal limits of Penrose Skelly
Pool by deleting following acreage from that pool:

T21S, R36E
Section 25: NE/4; E/2SE/4

(d) Contract lower vertical limits of Eumont Pool (Yates-Seven Rivers, Queen) from the top of the Grayburg or -150 feet below sea level, whichever is shallower, in the following areas:

T21S, R36E

Section 25: All
Section 26: SE/4SE/4
Section 35: E/2; SE/4NW/4; E/2SW/4; SW/4SW/4
Section 36: All

T22S, R36E

Sections 1 & 2: All
Section 12: All
Section 13: E/2; N/2NW/4; SE/4NW/4;
NE/4SW/4

T22S, R37E

Section 6: W/2W/2; E/2SW/4
Section 7: W/2; W/2SE/4; SE/4SE/4
Section 18: All

5. Notice of this Application has been sent in accordance with Division notice rules as set forth on Exhibit "C" attached hereto.

Respectfully submitted,

KELLAHIN, KELLAHIN & AUBREY

By: 

W. Thomas Kellahin
Post Office Box 2265
Santa Fe, New Mexico 87504
(505) 982-4285

ATTORNEYS FOR CHEVRON U.S.A., INC.

EXHIBIT "A"

T21S, R36E

Section 25: A11
Section 26: SE/4SE/4
Section 35: E/2; E/2SW/4; SW/4SW/4; SE/4NW/4
Section 36: A11

T22S, R36E

Section 1: A11
Section 2: A11
Section 11: NE/4NW/4; NE/4; NE/4SE/4
Section 12: A11
Section 13: E/2; E/2NW/4; NW/4NW/4; NE/4SW/4
Section 14: NE/4NE/4
Section 24: NE/4NE/4

T22S, R37E

Section 6: W/2NW/4; SW/4
Section 7: W/2; S/2SE/4; NW/4SE/4
Section 17: NW/4NW/4
Section 18: A11
Section 19: N/2N/2

POOL LIMITS ARROWHEAD STUDY AREA

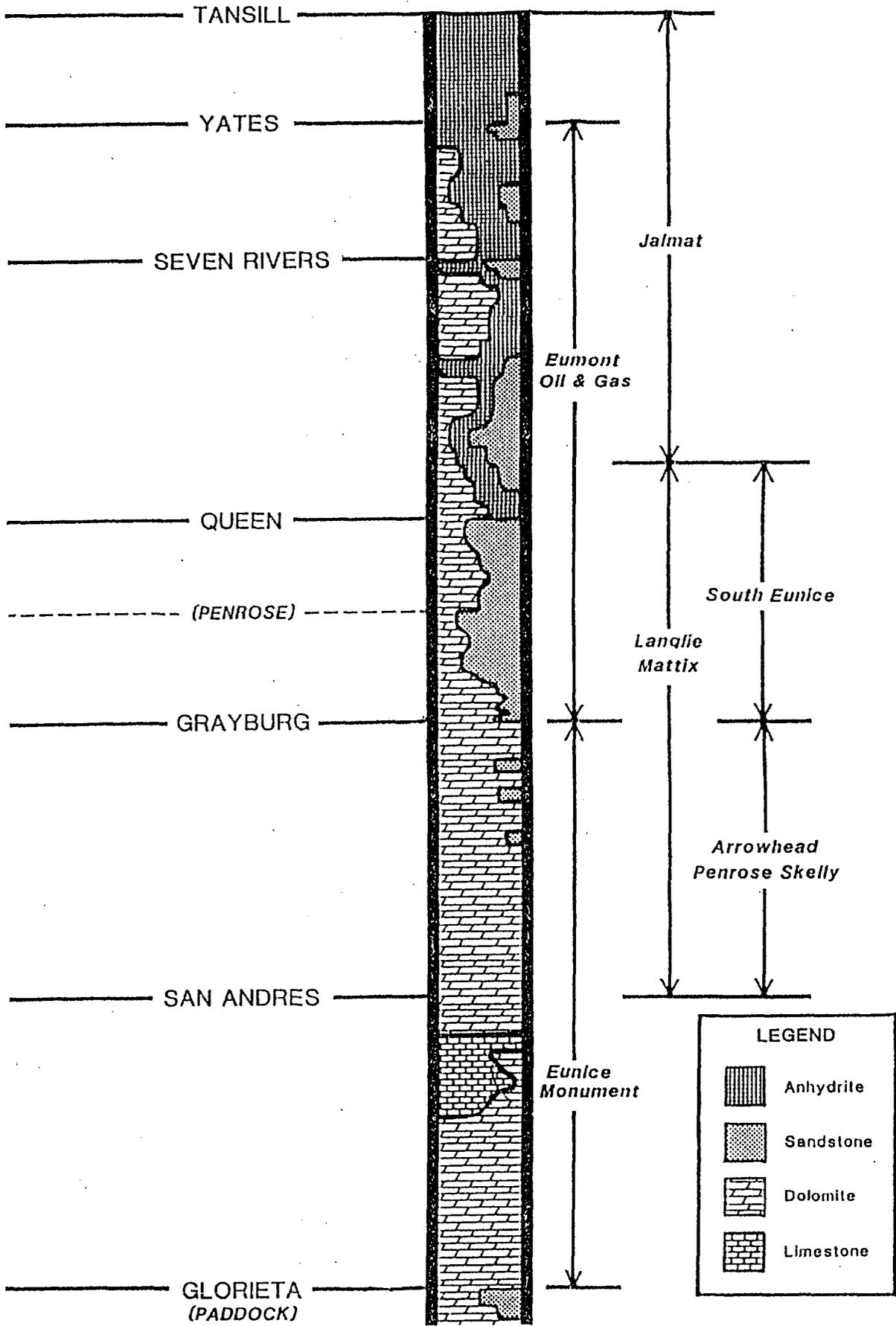


Fig. 5

EXHIBIT "B"