

#6516

**2003 PLAN OF DEVELOPMENT
NORTH MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of the Unit Agreement for Development and Operation of the North Maduro Unit Area dated December 22, 1987, and approved February 17, 1988 (NM-72609), Matador Operating Company, as Unit Operator for the North Maduro Unit Area, respectfully submits for approval this 2003 Plan of Development for the North Maduro Unit Area for the period ending December 31, 2003.

SUMMARY OF 2002 OPERATIONS

No wells were drilled or recompleted in 2002. Production for 2002 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	CONDENSATE BBL	OIL BBL
North Maduro #1	Middle Morrow	186,991	0	0
North Maduro #2	2 nd Bone Spring	6,268	0	4,140

PLAN OF DEVELOPMENT FOR 2003

No development drilling is planned for 2003.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2003.

Sincerely,

MATADOR OPERATING COMPANY


R.F. Burke, Vice President

**2003 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Maduro Unit Agreement for Development and Operation of the Maduro Unit Area dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 2003 Plan of Development for the Maduro Unit Area for the period ending December 31, 2003.

SUMMARY OF 2002 OPERATIONS

We recompleted the Maduro Unit #4 well in the Brushy Canyon Formation of the Delaware Group. Production for 2002 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	OIL BBL
Maduro Unit #1	Middle Morrow	17,677	191
Maduro Unit #2	Upper Middle Morrow	1,703	0
Maduro Unit #4	Atoka/Brushy Canyon	2,436	1,458
Maduro Unit #5	Middle Morrow	448,238	6,456

PLAN OF DEVELOPMENT FOR 2003

We are evaluating the Maduro Unit #1 and #2 wells for potential recompletions in the Bone Spring formation. No development drilling is planned for 2003.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2003.

Sincerely,

MATADOR OPERATING COMPANY


R.F. Burke, Vice President

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

ADMINISTRATION

Phone (505) 827-5700

Fax (505) 827-5853

GENERAL COUNSEL

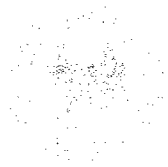
Phone (505) 827-5713

Fax (505) 827-4262

PUBLIC AFFAIRS

Phone (505) 827-1245

Fax (505) 827-5766



**New Mexico State Land Office
Commissioner of Public Lands
Ray Powell, M.S., D.V.M.**

COMMERCIAL RESOURCES

Phone (505) 827-5724

Fax (505) 827-6157

MINERAL RESOURCES

Phone (505) 827-5744

Fax (505) 827-4739

ROYALTY MANAGEMENT

Phone (505) 827-5772

Fax (505) 827-4739

SURFACE RESOURCES

Phone (505) 827-5793

Fax (505) 827-5711

June 3, 2002

Matador Petroleum Corporation
8340 Meadow Road
Suite 158, Pecan Creek
Dallas, Texas 75231-3751

Attn: Mr. R. F. Burke

2002 Plan of Development
Maduro Unit
Lea County, New Mexico

Dear Mr. Burke:

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.

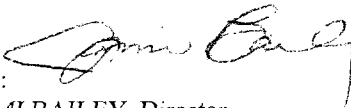
The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

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

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY:


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

RP/JB/cpm

xc: Reader File

OCD

BLM

**2002 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Maduro Unit Agreement for Development and Operation of the Maduro Unit Area dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 2002 Plan of Development for the Maduro Unit Area for the period ending December 31, 2002.

SUMMARY OF 2001 OPERATIONS

No wells were drilled or recompleted in 2001. Production for 2001 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	OIL BBL
Maduro Unit #1	Middle Morrow	17,759	14
Maduro Unit #2	Upper Middle Morrow	1,785	40
Maduro Unit #4	Atoka	5,236	104
Maduro Unit #5	Middle Morrow	639,918	11,190

PLAN OF DEVELOPMENT FOR 2002

We are evaluating the potential to recomplete the Maduro Unit #4 well for additional potential in the Lower Morrow and Middle Morrow zones. We are also evaluating the Maduro Unit #1 and #2 wells for potential recompletions in the Bone Spring formation. No development drilling is planned for 2002.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2002.

Sincerely,

MATADOR OPERATING COMPANY


R.F. Burke, Vice President

**2002 PLAN OF DEVELOPMENT
NORTH MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of the Unit Agreement for Development and Operation of the North Maduro Unit Area dated December 22, 1987, and approved February 17, 1988 (NM-72609), Matador Operating Company, as Unit Operator for the North Maduro Unit Area, respectfully submits for approval this 2002 Plan of Development for the North Maduro Unit Area for the period ending December 31, 2002.

SUMMARY OF 2001 OPERATIONS

No wells were drilled or recompleted in 2001. Production for 2001 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	CONDENSATE BBL	OIL BBL
North Maduro #1	Middle Morrow	218,974	0	0
North Maduro #2	2 nd Bone Spring	5,813	0	4,246

PLAN OF DEVELOPMENT FOR 2002


No development drilling is planned for 2002.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2002.

Sincerely,

MATADOR OPERATING COMPANY


R.F. Burke, Vice President

Union Oil and Gas Division: Central Region

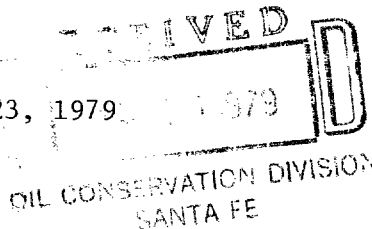
Union Oil Company of California
500 North Mariefeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



Robert V. Lockhart

District Land Manager
Midland District

May 23, 1979



Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

Gentlemen:

Case No. 6516
Order No. R-5076
Maduro Unit
Lea County, New Mexico

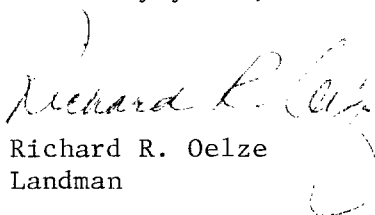
In connection with the captioned unit, we are enclosing the following material for your approval and file (supplemental material to our letter of May 10, 1979):

- 1) Original Working Interest Owner ratification signed by
The Superior Oil Company
- 2) Original Overriding Royalty Interest Owner ratifications
signed by the following (under Tract One): Vee K. Ross
Paul F. Kasper, Jr.
Monument Energy Corporation

The only ratification still outstanding with this mailing is from R. M. Young, Jr., and wife, an overriding royalty interest owner under Tract One. When it becomes available to us, we will send you a copy at that time.

Thank you for your consideration in this matter. If you have any further questions, please feel free to call.

Sincerely yours,


Richard R. Oelze
Landman

RRO/jr
Ecnls.

CONSENT, RATIFICATION AND JOINDER OF
MADURO UNIT AGREEMENT AND UNIT OPERATING AGREEMENT
LEA COUNTY, NEW MEXICO

(Working Interest Owner).

RECEIVED
MAY 25 1979
OIL CONSERVATION DIVISION
SANTA FE

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, certain instruments entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, AND UNIT OPERATING AGREEMENT, MADURO UNIT, LEA COUNTY, NEW MEXICO, have been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the Maduro Unit Area, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement and Unit Operating Agreement each provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a working interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under each of said agreements, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement and said Unit Operating Agreement, and the undersigned does hereby agree that the parties to said agreements are those persons signing the originals of said instruments, counterparts thereof or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement and said Unit Operating Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

ATTEST:

THE SUPERIOR OIL COMPANY

By E. J. Dickinson
Vice President

C. W. [Signature]
Assistant Secretary

Date: _____

Address: P. O. Box 71
Conroe, Texas 77301

STATE OF Texas X
COUNTY OF Harris X

The foregoing instrument was acknowledged before me this 1st day of May, 1979, by E. J. DICKINSON,
Vice-President of The Superior Oil Company,
a Nevada corporation, on behalf of said corporation.

My Commission expires: _____

ELLA WARE
Notary Public

ELLA WARE
Notary Public in and for Harris County, Texas
My Commission Expires May 31, 1979

(Royalty and Overriding Royalty Interest Owner)

1920 W. Carson St., Torrance, CA 90501

CONSENT, RATIFICATION AND JOINDER OF
MADURO UNIT AGREEMENT
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the MADURO UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

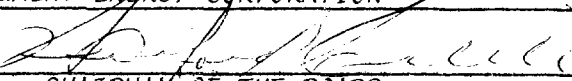
IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: MAY 3, 1979

Address: POST OFFICE BOX 1476

LOVINGTON, NEW MEXICO 88260

MONUMENT ENERGY CORPORATION

By: 

CHAIRMAN OF THE BOARD

(Royalty or Overriding Royalty OWNER)

STATE OF _____, § SS. (Individual)
COUNTY OF _____.

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____.

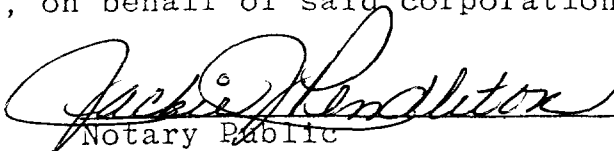
My Commission expires: _____

Notary Public

STATE OF NEW MEXICO, § SS. (Corporate)
COUNTY OF LEA.

The foregoing instrument was acknowledged before me this 3rd day of MAY, 1979, by WINFORD CARLILE, CHAIRMAN OF THE BOARD, of MONUMENT ENERGY CORPORATION, a TEXAS corporation, on behalf of said corporation.

My Commission expires:
DECEMBER 12, 1980


Notary Public

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
Telephone (915) 682-9731

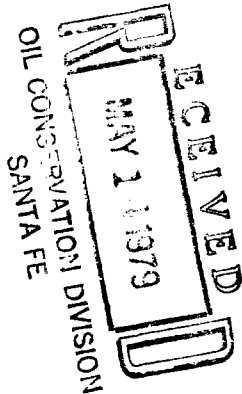
Mailing Address: P. O. Box 671
Midland, Texas 79702



Midland District

May 10, 1979

Case 6516



Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

*5/17/79
materials
approved
E/R*

Gentlemen:

Case No. 6516
Order No. R-5976
Maduro Unit
Lea County, New Mexico

In connection with the captioned unit, we are enclosing the following material for your approval and file (supplemental material to our letter of April 30, 1979):

- 1) Original executed Unit Operating Agreement signed by Union Oil Company of California on March 20, 1979 (ratifications signed by the Maduro Working Interest Owners were mailed to your office April 30, 1979);
- 2) Letters from USGS dated May 3 and May 7, 1979, together with approved Certification-Determination giving Maduro Unit Area final approval effective May 3, 1979.
- 3) Original ratifications signed by the following overriding royalty interest owners:

Woodlan Perry Saunders
Mary Lee Saunders Reese (Note Change of Name)
Eric Earl Unger
Mary Leslie Unger

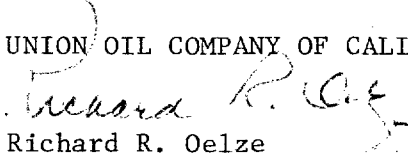
We still have not received the ratification from The Superior Oil Company and from the overriding royalty interest owners under Tract 1. We expect to receive these ratifications in the next few days and we will provide you with copies when they become available to us.

Oil Conservation Division
Energy and Minerals Department
Page 2
Maduro Unit

Our drilling department informs us a rig will be on location around May 15, 1979. Should you need any further information in this regard, please advise. Thank you for your support and cooperation.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA


Richard R. Oelze
Landman

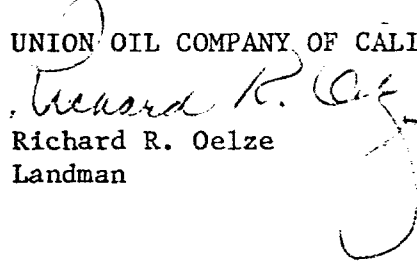
RRO/jr
Encls.

Oil Conservation Division
Energy and Minerals Department
Page 2
Maduro Unit

Our drilling department informs us a rig will be on location around May 15, 1979. Should you need any further information in this regard, please advise. Thank you for your support and cooperation.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA


Richard R. Oelze
Landman

RRO/jr
Encls.

Oil Conservation Division
Energy and Minerals Department
Page 2
Maduro Unit

Our drilling department informs us a rig will be on location around May 15, 1979. Should you need any further information in this regard, please advise. Thank you for your support and cooperation.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Richard R. Oelze
Richard R. Oelze
Landman

RRO/jr
Encls.

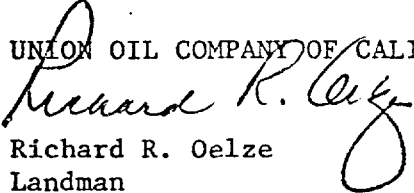
Oil Conservation vision
Energy and Minerals Department
April 30, 1979
Page 2
Maduro Unit

Overriding Royalty Owners - Virginia Lee Saunders
Robert S. Light and JoAnna W.
Light, dba "The Light Company"
Elizabeth W. Mendez
J. Ray Hobbs
Donald L. Killgore
Carlsbad National Bank, Trustee,
for Bradley T. Light, et al
Herbert D. Lowell and wife
Reva Raeda Lowell

Should you require any additional information, please let us hear from you.
Thank you for your cooperation in this matter.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA


Richard R. Oelze
Landman

RRO/jr
Encls.

Oil Conservation Division
Energy and Minerals Department
Page 2
Maduro Unit

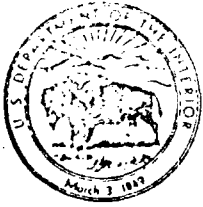
Our drilling department informs us a rig will be on location around May 15, 1979. Should you need any further information in this regard, please advise. Thank you for your support and cooperation.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Richard R. Oelze
Richard R. Oelze
Landman

RRO/jr
Encls.



United States Department of the Interior

GEOLOGICAL SURVEY

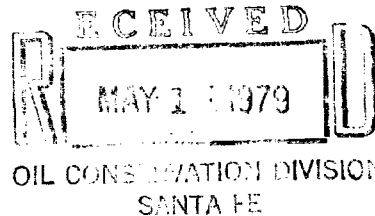
P. O. Box 26124
Albuquerque, New Mexico 87125

RECEIVED

MAY 4 1979

May 3, 1979

MIDLAND DISTRICT LAND



Union Oil Company of California
Attention: Mr. Richard R. Oelze
P. O. Box 671
Midland, Texas 79702

Gentlemen:

One approved copy of the Maduro unit agreement, Lea County, New Mexico, is enclosed. Such agreement has been assigned No. 14-08-0001-18027 and is effective as of this date, the same day as approved.

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

Sincerely yours,

JACK WILLOCK
Acting Oil & Gas Supervisor, SPMA

Enclosure



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE



United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Drawer 1857
Roswell, New Mexico 88201

RECEIVED

MAY 8 1979

May 7, 1979

MIDLAND DISTRICT LAND

Union Oil Company of California
Attention: Mr. Richard R. Oelze
P. O. Box 671
Midland, Texas 79702

Gentlemen:

Reference is made to our letter of May 3, 1979 whereby you were notified of the U. S. Geological Survey approval for the Maduro unit agreement, Lea County, New Mexico. The number assigned to the unit, No. 14-08-0001-18027, is incorrect. The correct number is No. 14-08-0001-18028. Please note your records accordingly to show the corrected number.

Sincerely yours,

J. A. GILLHAM
Supervisory Petroleum Engineer

Copy: John Hansen



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

RECEIVED
APR 25 1979
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

CERTIFICATION--DETERMINATION

Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C. secs. 181, et seq., and delegated to the Oil and Gas Supervisors of the Geological Survey (33 F.R. 5812), I do hereby:

A. Approve the attached agreement for the development and operation of the MADURO Unit Area, State of NEW MEXICO.

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.

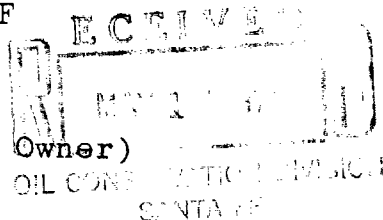
C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

Dated May 3, 1979.

Acting Joell Willock
Oil and Gas Supervisor, United States Geological Survey

Contract Number 14-08-0001-18027

CONSENT, RATIFICATION AND JOINDER OF
MADURO UNIT AGREEMENT
LEA COUNTY, NEW MEXICO



(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the MADURO UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: 4-23-79

Mary Leslie Unger
Mary Leslie Unger

Address: Box 288

Clifton, NM 86634

(Royalty or Overriding Royalty OWNER)

STATE OF Texas, §
COUNTY OF Brewster. § SS. (Individual)

The foregoing instrument was acknowledged before me this 23rd day of April, 1979, by Mary Leslie Unger.

My Commission expires:
10-31-80

Ada Thurgood Handcastle
Notary Public

STATE OF _____, §
COUNTY OF _____. § SS. (Corporate)

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____, of _____, a _____ corporation, on behalf of said corporation.

My Commission expires:

Notary Public

CONSENT, RATIFICATION AND JOINDER OF
MADURO UNIT AGREEMENT
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the MADURO UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: April 19, 1979

Woodlan Perry Saunders
Woodlan Perry Saunders

Address: P.O. Box 1536

Santa Fe, New Mexico 87501

(Royalty or Overriding Royalty OWNER)

STATE OF New Mexico, §
COUNTY OF Santa Fe § SS. (Individual)

The foregoing instrument was acknowledged before me this 19th day of April, 1979, by Woodlan Perry Saunders.

My Commission expires: _____

Notary Public

OFFICIAL SEAL

SIGNATURE Marcianne R. Miller
MARCIANNE R. MILLER

NOTARY PUBLIC - NEW MEXICO

ON FILED WITH SECRETARY OF STATE

Commission Expires 5-19-1981

STATE OF _____, §
COUNTY OF _____ § SS. (Corporate)

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____, of _____, a _____ corporation, on behalf of said corporation.

My Commission expires: _____

Notary Public

CONSENT, RATIFICATION AND JOINDER OF
MADURO UNIT AGREEMENT
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the MADURO UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: 4/18/79 Mary Lee Saunders Reese
Address: Box 1536
Santa Fe, N. Mex. 87501 Mary Lee Saunders Reese
(Royalty or Overriding Royalty OWNER)

STATE OF Montana, § SS. (Individual)
COUNTY OF De Clark, §

The foregoing instrument was acknowledged before me this 18th day of April, 19 79, by Mary Lee Saunders Reese.

My Commission expires: 10-21-80 Janet Horne
Notary Public

STATE OF _____, § SS. (Corporate)
COUNTY OF _____, §

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____, of _____, a _____ corporation, on behalf of said corporation.

My Commission expires: _____
Notary Public

CONSENT, RATIFICATION AND JOINDER OF
MADURO UNIT AGREEMENT
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the MADURO UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: April 16

Eric Earl Unger
Eric Earl Unger

Address: Box 1002

Ruidoso New Mexico 88345

(Royalty or Overriding Royalty OWNER)

STATE OF New Mexico,
COUNTY OF Lincoln. § SS. (Individual)

The foregoing instrument was acknowledged before me this 16th day of April, 1979, by Eric Earl Unger.

My Commission expires:
4-17-82

William E. Bowen
Notary Public

STATE OF _____,
COUNTY OF _____. § SS. (Corporate)

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____, of _____, a _____ corporation, on behalf of said corporation.

My Commission expires:

Notary Public

2001 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

6516

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Maduro Unit Agreement for Development and Operation of the Maduro Unit Area dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 2001 Plan of Development for the Maduro Unit Area for the period ending December 31, 2001.

SUMMARY OF 2000 OPERATIONS

Matador acidized the Atoka in the Maduro Unit #4. Production for 2000 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	OIL BBL
Maduro Unit #1	Middle Morrow	17,087	45
Maduro Unit #2	Upper Middle Morrow	549	9
Maduro Unit #4	Atoka	9,830	811
Maduro Unit #5	Middle Morrow	775,163	16,924

PLAN OF DEVELOPMENT FOR 2001


We are evaluating the potential to recomplete the Maduro Unit #4 well for additional potential in the Lower Morrow and Middle Morrow zones. No development drilling is planned for 2001.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2001.

Sincerely,

MATADOR OPERATING COMPANY


R.F. Burke, Vice President

**2000 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 2000 Plan of Development for the Maduro Unit Area for the period ending December 31, 2000.

SUMMARY OF 1999 OPERATIONS

Matador attempted to recomplete the Maduro Unit #4 well from the Upper Morrow to the Atoka, efforts unsuccessful. No new wells were drilled during 1999. Production for 1999 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	CONDENSATE BBL
Maduro Unit #1	Middle Morrow	20,913	205
Maduro Unit #2	Upper Middle Morrow	2,190	0
Maduro Unit #4	Upper Morrow	5,441	0
Maduro Unit #5	Middle Morrow	956,721	28,126

PLAN OF DEVELOPMENT FOR 2000

We are evaluating the potential to recomplete the Maduro Unit #4 well for additional potential in the Lower Morrow and Middle Morrow zones. No development drilling is planned for 2000.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2000.

Sincerely,

MATADOR OPERATING COMPANY


R. F. Burke, Vice President

WA

**2000 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 2000 Plan of Development for the Maduro Unit Area for the period ending December 31, 2000.

SUMMARY OF 1999 OPERATIONS

Matador attempted to recompleate the Maduro Unit #4 well from the Upper Morrow to the Atoka, efforts unsuccessful. No new wells were drilled during 1999. Production for 1999 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	CONDENSATE BBL
Maduro Unit #1	Middle Morrow	20,913	205
Maduro Unit #2	Upper Middle Morrow	2,190	0
Maduro Unit #4	Upper Morrow	5,441	0
Maduro Unit #5	Middle Morrow	956,721	28,126

PLAN OF DEVELOPMENT FOR 2000


We are evaluating the potential to recompleate the Maduro Unit #4 well for additional potential in the Lower Morrow and Middle Morrow zones. No development drilling is planned for 2000.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 2000.

Sincerely,

MATADOR OPERATING COMPANY


R. F. Burke, Vice President

MA

**1999 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 1999 Plan of Development for the Maduro Unit Area for the period ending December 31, 1999.

SUMMARY OF 1998 OPERATIONS

Matador recompleted the Maduro Unit #2 well from the Middle Morrow to an Upper Middle Morrow zone. No new wells were drilled during 1998. Production for 1998 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	CONDENSATE BBL
Maduro Unit #1	Middle Morrow	18356	32
Maduro Unit #2	Upper Middle Morrow	2179	83
Maduro Unit #4	Upper Morrow	23449	133
Maduro Unit #5	Middle Morrow	576912	21798

PLAN OF DEVELOPMENT FOR 1999

We are evaluating the potential to recomplete the Maduro Unit #4 well in additional Middle Morrow zones and possibly adding the Atoka formation. No development drilling is planned for 1999.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 1999.

Sincerely,

MATADOR OPERATING COMPANY


R. F. Burke, Vice President

MA

**1999 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: New Mexico Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Attention: Lori Wrotenbery, Director

Pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 1999 Plan of Development for the Maduro Unit Area for the period ending December 31, 1999.

SUMMARY OF 1998 OPERATIONS

Matador recompleted the Maduro Unit #2 well from the Middle Morrow to an Upper Middle Morrow zone. No new wells were drilled during 1998. Production for 1998 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MCF	CONDENSATE BBL
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Maduro Unit #4	Upper Morrow	23449	133
Maduro Unit #5	Middle Morrow	576912	21798

PLAN OF DEVELOPMENT FOR 1999

We are evaluating the potential to recomplete the Maduro Unit #4 well in additional Middle Morrow zones and possibly adding the Atoka formation. No development drilling is planned for 1999.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of April, 1999.

Sincerely,

MATADOR OPERATING COMPANY


R. F. Burke, Vice President

MA



New Name. Same Spirit.
A Business Unit of Union

March 28, 1997

Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco
Santa Fe, New Mexico 87505
Attn: Mr. William J. Lemay, Director

Re: 1997 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Maduro Prospect (8138)

Gentlemen:

Please find enclosed for your approval two (2) copies of Union's 1997 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely yours,
UNION OIL COMPANY OF CALIFORNIA
dba Spirit Energy 76

A handwritten signature in cursive script that reads "Linda H. Hicks".

Linda H. Hicks
Land Advisor-Contracts

LHH/s

1997 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco
Santa Fe, New Mexico 87505
Attn: Mr. William J. LeMay, Directorer

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1997 Plan of Development for the Maduro Unit Area for the period ending December 31, 1997.

SUMMARY OF 1996 OPERATIONS

Added additional perforations in Middle Morrow and stimulated Maduro Unit Fed #1 Well. 1996 production is summarized below:

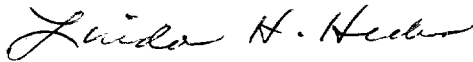
WELL	<u>1996 PRODUCTION</u>		
	COMPLETED INTERVAL	GAS MMCF	CONDENSATE BBL
1	Middle Morrow	28.520	161
2	Middle Morrow	24.231	151
4	Upper Morrow	27.443	197

PLAN OF DEVELOPMENT FOR 1997

Drill Maduro Federal #5 well to test Morrow.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 28th day of March, 1997.

Sincerely,
UNION OIL COMPANY OF CALIFORNIA

Linda H. Hicks
Land Advisor/Contracts

MADURO UNIT
2 YEAR PRODUCTION HISTORY
UNION OIL COMPANY OF CALIFORNIA

WELL: PROD FORM: STATUS:	MADURO UNIT FEDERAL #1 Middle Morrow Producing Gas Well				MADURO UNIT FEDERAL #2 Middle Morrow Producing Gas Well				MADURO UNIT FEDERAL #4 Upper Morrow Producing Gas Well			
	OIL VOL		GAS VOL		OIL VOL		GAS VOL		OIL VOL		GAS VOL	
	PROD bbls	WAT VOL PROD bbls	PROD Mscf	WAT VOL PROD bbls	PROD bbls	WAT VOL PROD bbls	PROD Mscf	WAT VOL PROD bbls	PROD bbls	WAT VOL PROD bbls	PROD Mscf	WAT VOL PROD bbls
DATE												
Jan-95	0	56	2058		0		402		33		3863	15
Feb-95	2	31	1631		0		74		34		2945	0
Mar-95	0	54	1505		0		0		0		2309	0
Apr-95	0	17	1449		0		16		1		625	1
May-95	8	111	1553		0		511		11		1587	18
Jun-95	0	0	666		10		516		0		181	0
Jul-95	0	8	935		34		1597		15		2517	0
Aug-95	4	5	624		0		1776		43		2760	130
Sep-95	9	9	1025		5		894		44		2968	21
Oct-95	0	0	2884		0		1827		0		2928	6
Nov-95	0	0	2551		1		2013		9		2374	1
Dec-95	0	0	1958		0		2076		0		2204	1
ANNUAL	23	291	18839		50		11702		190		27261	193
Jan-96	80	11	1496		0		2001		34		2427	58
Feb-96	11	17	581		15		2163		3		1657	0
Mar-96	0	119	2229		10		1674		22		1779	0
Apr-96	8	81	2406		31		1763		10		1542	0
May-96	6	113	2691		19		2313		12		1760	0
Jun-96	3	111	2619		20		1588		8		2243	0
Jul-96	5	200	2765		1		1816		36		2422	10
Aug-96	9	226	3844		0		3844		21		2542	12
Sep-96	16	0	2791		10		1733		16		2714	8
Oct-96	9	153	2454		8		1614		12		2954	24
Nov-96	14	100	2322		25		1814		19		2833	8
Dec-96	0	122	2322		12		1908		4		2570	12
ANNUAL	161	1253	28520		151		24231		197		27443	132

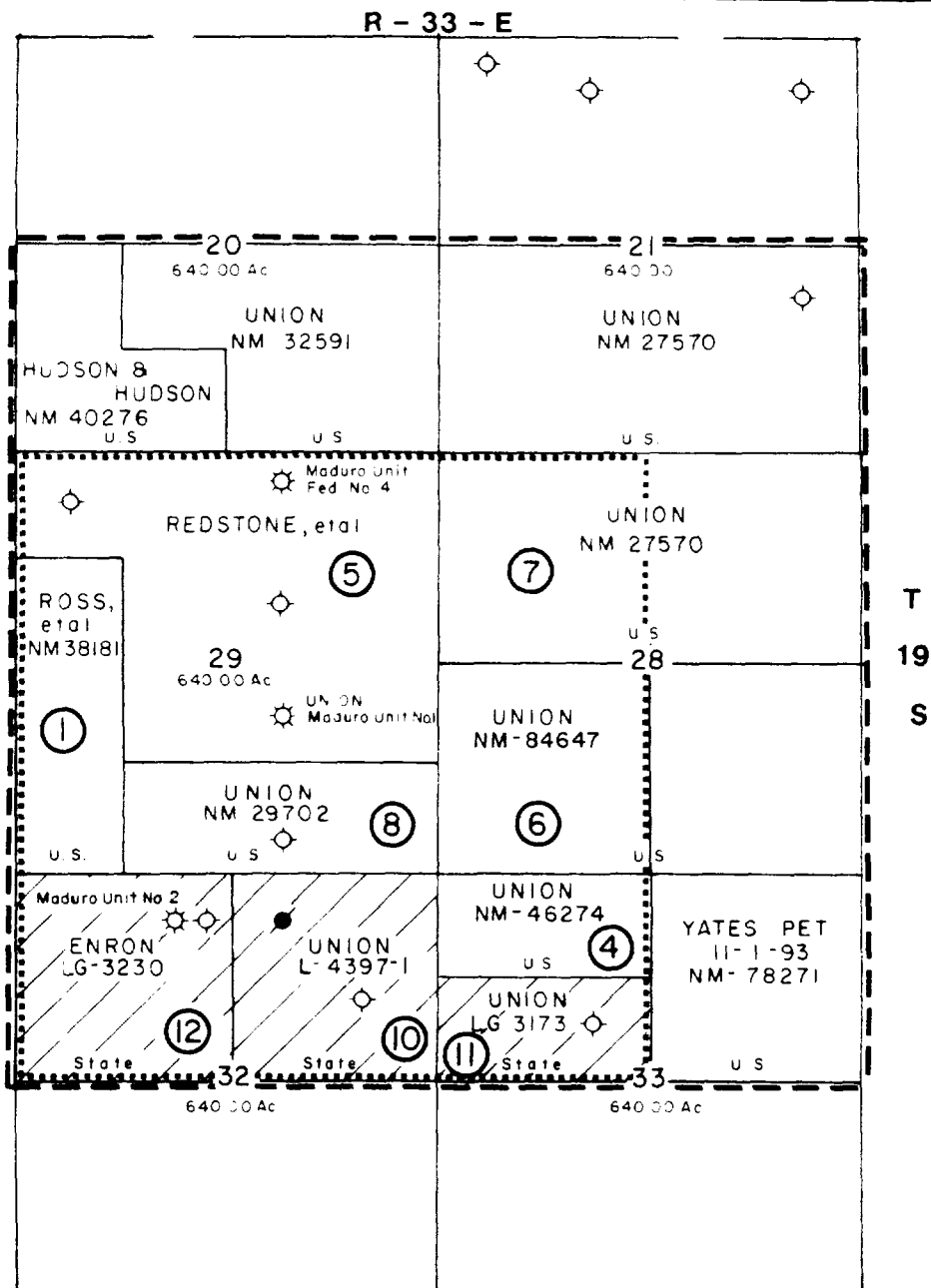


EXHIBIT "A" - (REVISED)
MADURO UNIT
 LEA COUNTY, NEW MEXICO
 (AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



- ① TRACT NUMBER - EXHIBIT "B"
- FEDERAL 1040.00 Ac. 72.22222 %
- STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %
- ORIGINAL UNIT BOUNDARY
- REVISED UNIT BOUNDARY & PARTICIPATING AREA

1997 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco
Santa Fe, New Mexico 87505
Attn: Mr. William J. LeMay, Director

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1997 Plan of Development for the Maduro Unit Area for the period ending December 31, 1997.

SUMMARY OF 1996 OPERATIONS

Added additional perforations in Middle Morrow and stimulated Maduro Unit Fed #1 Well. 1996 production is summarized below:

WELL	<u>1996 PRODUCTION</u>		
	COMPLETED INTERVAL	GAS MMCF	CONDENSATE BBL
1	Middle Morrow	28.520	161
2	Middle Morrow	24.231	151
4	Upper Morrow	27.443	197

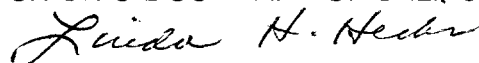
PLAN OF DEVELOPMENT FOR 1997

Drill Maduro Federal #5 well to test Morrow.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 28th day of March, 1997.

Sincerely,
UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Land Advisor/Contracts

MADURO UNIT
2 YEAR PRODUCTION HISTORY
UNION OIL COMPANY OF CALIFORNIA

WELL:	MADURO UNIT FEDERAL #1				MADURO UNIT FEDERAL #2				MADURO UNIT FEDERAL #4			
	Middle Morrow				Middle Morrow				Upper Morrow			
PROD FORM:	Producing Gas Well				Producing Gas Well				Producing Gas Well			
STATUS:												
DATE	OIL VOL PROD bbls	GAS VOL PROD Mscf	WAT VOL PROD bbls	OIL VOL PROD bbls	GAS VOL PROD Mscf	WAT VOL PROD bbls	OIL VOL PROD bbls	GAS VOL PROD Mscf	OIL VOL PROD bbls	GAS VOL PROD Mscf	WAT VOL PROD bbls	
Jan-95	0	2058	56	0	402	0	33	3863	15			
Feb-95	2	1631	31	0	74	0	34	2945	0			
Mar-95	0	1505	54	0	0	0	0	2309	0			
Apr-95	0	1449	17	0	16	0	1	625	1			
May-95	8	1553	111	0	511	1	11	1587	18			
Jun-95	0	666	0	10	516	0	0	181	0			
Jul-95	0	935	8	34	1597	45	15	2517	0			
Aug-95	4	624	5	0	1776	0	43	2760	130			
Sep-95	9	1025	9	5	894	0	44	2968	21			
Oct-95	0	2884	0	0	1827	0	0	2928	6			
Nov-95	0	2551	0	1	2013	0	9	2374	1			
Dec-95	0	1958	0	0	2076	0	0	2204	1			
ANNUAL	23	18839	291	50	11702	46	190	27261	193			
Jan-96	80	1496	11	0	2001	0	34	2427	58			
Feb-96	11	581	17	15	2163	0	3	1657	0			
Mar-96	0	2229	119	10	1674	4	22	1779	0			
Apr-96	8	2406	81	31	1763	7	10	1542	0			
May-96	6	2691	113	19	2313	5	12	1760	0			
Jun-96	3	2619	111	20	1588	5	8	2243	0			
Jul-96	5	2765	200	1	1816	0	36	2422	10			
Aug-96	9	3844	226	0	3844	0	21	2542	12			
Sep-96	16	2791	0	10	1733	0	16	2714	8			
Oct-96	9	2454	153	8	1614	0	12	2954	24			
Nov-96	14	2322	100	25	1814	9	19	2833	8			
Dec-96	0	2322	122	12	1908	7	4	2570	12			
ANNUAL	161	28520	1253	151	24231	37	197	27443	132			

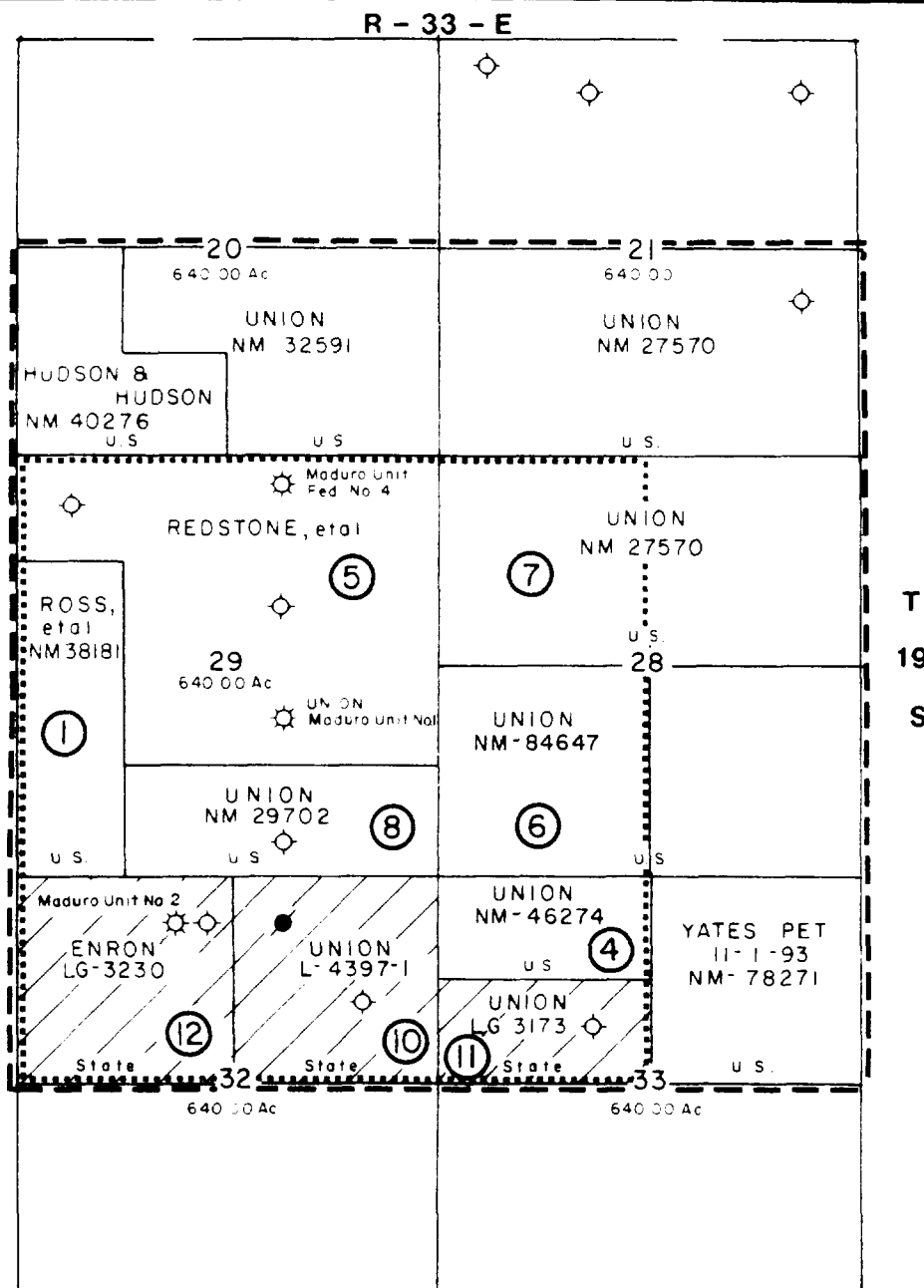


EXHIBIT "A" - (REVISED)

MADURO UNIT

LEA COUNTY, NEW MEXICO

(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



TRACT NUMBER - EXHIBIT "B"



FEDERAL 1040.00 Ac. 72.22222 %



STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %



ORIGINAL UNIT BOUNDARY



REVISED UNIT BOUNDARY & PARTICIPATING AREA

REVISED 3/94

#6516



COMMERCIAL RESOURCES
(505)-827-5724

SURFACE RESOURCES
(505)-827-5793

MINERAL RESOURCES
(505)-827-5744

ROYALTY
(505)-827-5772

State of New Mexico
Commissioner of Public Lands
Ray Powell, M.S., D.V.M.
310 Old Santa Fe Trail, P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Phone (505)-827-5760, Fax (505)-827-5766

PUBLIC AFFAIRS
(505)-827-5765

ADMINISTRATIVE MGMT.
(505)-827-5700

LEGAL
(505)-827-5713

PLANNING
(505)-827-5752

June 8, 1998

Matador Petroleum Corporation
8340 Meadow Road
Suite 158, Pecan Creek
Dallas, Texas 75231-3751

Attn: Ms. Mona D. Ables

Re: Resignation/Designation of Successor Unit Operator
Maduro Unit
Lea County, New Mexico

Dear Ms. Ables:

We are in receipt of your resignation/designation of successor unit operator, wherein Union Oil Company of California has resigned as unit operator of the Maduro Unit and designated Matador Petroleum Corporation as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation of Union Oil Company of California and the designation of Matador Petroleum Corporation as the successor unit operator of this unit.

This change in operators is effective January 21, 1998. In accordance with this approval, Matador Petroleum Corporation is now responsible for all operations and the reporting of all production from the unit. This approval is subject to like approval by the Bureau of Land Management.

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

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: *For Catherine H. Bailey*
JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

RP/JB/cpm
pc: Reader File OCD-Roy Johnson TRD BLM UNOCAL



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

6516
OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

April 28, 1998

Mona D. Ables
Matador Petroleum Corporation
Suite 158, Pecan Creek
8340 Meadow Road
Dallas, TX 75231-3751

RE: 1998 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Maduro Prospect

Gentlemen:

The New Mexico Oil Conservation Division is in receipt of your above referenced application which has been approved on this date. Our approval is subject to like approval by the New Mexico State Land Office and the Bureau of Land Management where applicable.

Should you have any questions pertaining to this matter, please contact me at (505) 827-8198.

Sincerely,

A handwritten signature in dark ink, appearing to read "Roy E. Johnson".

Roy E. Johnson
Senior Petroleum Geologist

REJ:kv

cc: NMSLO
Bureau of Land Management - Roswell
Unit File

MATADOR PETROLEUM CORPORATION

SUITE 158, PECAN CREEK
8340 MEADOW ROAD
DALLAS, TEXAS 75231-3751
(214) 987-3650
FAX: (214) 691-1415

April 13, 1998

1998 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Maduro Prospect

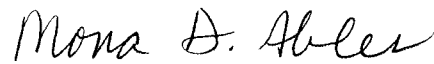
Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco
Santa Fe, NM 87505
Attention: Lori Wrotenbury

Gentlemen:

Enclosed for your approval, please find two (2) copies of Matador Operating Company's 1998 Plan of Development for the Maduro Unit Area.

If you need any additional information, please feel free to call.

Sincerely,



Mona D. Ables
(214) 987-7129



6516

RAY POWELL, M.S., D.V.M.
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

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

(505) 827-5760
FAX (505) 827-5766

April 3, 1996

UNOCAL
Post Office Box 3100
Midland, Texas 79702

Attn: Ms. Linda H. Hicks

Re: 1996 Plan of Development
Maduro Unit
Lea County, New Mexico

Dear Ms. Hicks:


The Commissioner of Public Lands has 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,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
LARRY KEHOE, Director
Oil, Gas and Minerals Division
(505) 827-5744

RP/LK/cpm

cc: Reader File

Commissioner's File

OCD

TRD

BLM

Unocal Corporation
Oil and Gas Operations
1004 North Big Spring, Suite 100
P.O. Box 3100
Midland, Texas 79702
Telephone (915) 687-7600

UNOCAL 76

March 28, 1996

Unocal Corporation Subject

*D-Unit letter
Tax*

Oil Conservation Division
Energy & Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088
Attn: Mr. William J. LeMay, Director

Re: 1996 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Maduro Prospect (8138)

Gentlemen:

Please find enclosed for your approval two (2) copies of Union's 1996 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely yours,
UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Land Advisor-Contracts

LHH/s

**1998 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco
Santa Fe, New Mexico 87505
Attention: Mrs. Lori Wrotenbury, Director

Pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 1998 Plan of Development for the Maduro Unit Area for the period ending December 31, 1998.

SUMMARY OF 1997 OPERATIONS

On August 15, 1997, Nearburg Exploration Company spud the Maduro Unit #5 well pursuant to wellbore farmout dated June 5, 1997. The well was drilled to the Morrow formation and is pending final completion at this time. The well is located within the boundaries of the unit and will be turned over to Matador to operate after completion.

Production for 1997 is summarized below:

WELL NAME	PRODUCING INTERVAL	GAS MMCF	CONDENSATE BBL
Maduro Unit #1	Middle Morrow	22.825	135
Maduro Unit #2	Middle Morrow	11.102	169
Maduro Unit #4	Upper Morrow	24.079	146
Maduro Unit #5	Completion pending	0	0

PLAN OF DEVELOPMENT FOR 1998


Pending results of evaluation of the Atoka formation, we may propose a recompletion attempt for the Maduro Unit #4 well.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 9th day of April, 1998.

Sincerely,

MATADOR OPERATING COMPANY


Austin Murr
Land Manager

**1998 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: Oil Conservation Division
Energy & Minerals Division
2040 South Pacheco
Santa Fe, New Mexico 87505
Attention: Mrs. Lori Wrotenbury, Director

Pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), Matador Operating Company, as Unit Operator for the Maduro Unit, respectfully submits for approval this 1998 Plan of Development for the Maduro Unit Area for the period ending December 31, 1998.

SUMMARY OF 1997 OPERATIONS

On August 15, 1997, Nearburg Exploration Company spud the Maduro Unit #5 well pursuant to wellbore farmout dated June 5, 1997. The well was drilled to the Morrow formation and is pending final completion at this time. The well is located within the boundaries of the unit and will be turned over to Matador to operate after completion.

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Maduro Unit #4	Upper Morrow	24.079	146
Maduro Unit #5	Completion pending	0	0

PLAN OF DEVELOPMENT FOR 1998

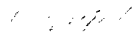
Pending results of evaluation of the Atoka formation, we may propose a recompletion attempt for the Maduro Unit #4 well.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 9th day of April, 1998.

Sincerely,

MATADOR OPERATING COMPANY


Austin Murr
Land Manager



COMMERCIAL RESOURCES
(505)-827-5724

SURFACE RESOURCES
(505)-827-5793

MINERAL RESOURCES
(505)-827-5744

ROYALTY
(505)-827-5772

State of New Mexico
Commissioner of Public Lands

Ray Powell, M.S., D.V.M.
310 Old Santa Fe Trail, P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Phone (505)-827-5760, Fax (505)-827-5766

PUBLIC AFFAIRS
(505)-827-5765

ADMINISTRATIVE MGMT.
(505)-827-5700

LEOAL
(505)-827-5713

PLANNING
(505)-827-5752

April 8, 1997

Spirit Energy 76
P.O. Box 3100
Midland, Texas 79702

Attn: Ms. Linda H. Hicks

Re: 1997 Plan of Development
Maduro Unit
Lea County, New Mexico

Dear Ms. Hicks:

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.

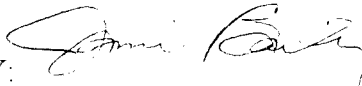
The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

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

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY:


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

RP/JB/cpm
cc: Reader File

OCD

BLM

1996 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy & Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088
Attn: Mr. William J. LeMay, Director

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1996 Plan of Development for the Maduro Unit Area for the period ending December 31, 1996.

SUMMARY OF 1995 OPERATIONS

No new Unit wells were drilled in 1995. Yearly production for 1995 for each Unit well is shown below:

WELL	COMPLETED INTERVAL	GAS MMCF	CONDENSATE BBL
1	Middle Morrow	18.839	23
2	Middle Morrow	11.702	50
4	Upper Morrow	27.261	190

PLAN OF DEVELOPMENT FOR 1996

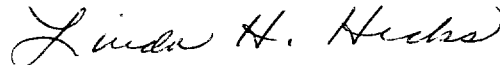
Union has no plans to drill any new wells or recompleate any existing wells in 1996. We do plan a stimulation in the #1 well.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 28th day of March, 1996.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Land Advisor/Contracts

20 640 00 Ac UNION NM 32591 HUDSON 8 HUDSON NM 40276 U.S.

21 640 00 UNION NM 27570 U.S.

REDSTONE, et al (5) (7) UNION NM 27570 U.S.

ROSS, et al NM 38181 (1) 29 640 00 Ac UNION NM 29702 (8) UNION NM 84647 (6) U.S.

Maduro Unit Fed No. 4

U.S.

U.S.

Maduro Unit No. 2

ENRON LG-3230 (12) UNION L-4397-1 (10) UNION LG 3173 (11) U.S.

State State State

32 640 00 Ac 33 640 00 Ac





YATES PET II-1-93 NM-78271 U.S.

EXHIBIT "A" - (REVISED)

MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)

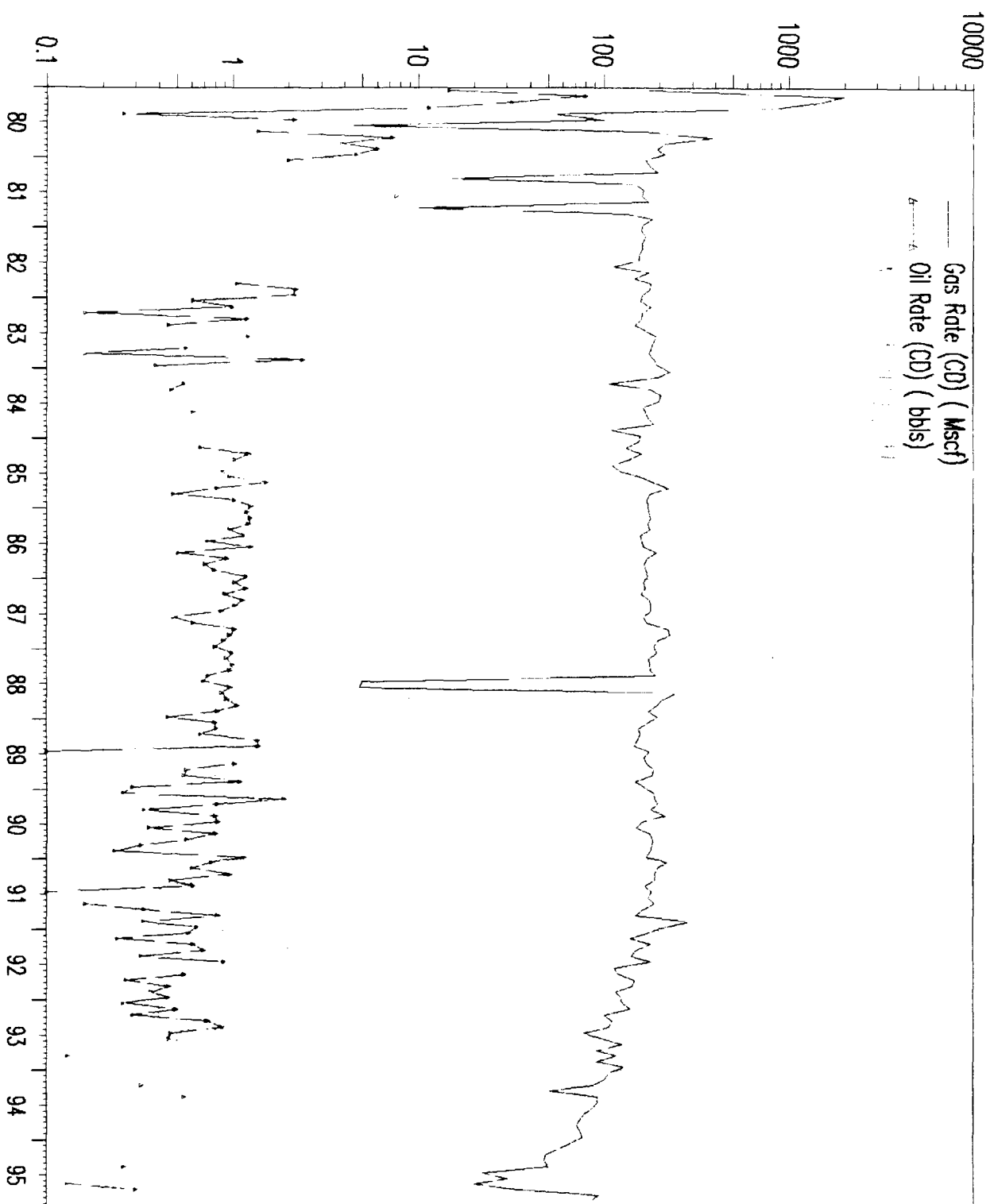


- ① TRACT NUMBER - EXHIBIT "B"
-  FEDERAL 1040.00 Ac. 72.22222 %
-  STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %
-  ORIGINAL UNIT BOUNDARY
-  REVISED UNIT BOUNDARY & PARTICIPATING AREA

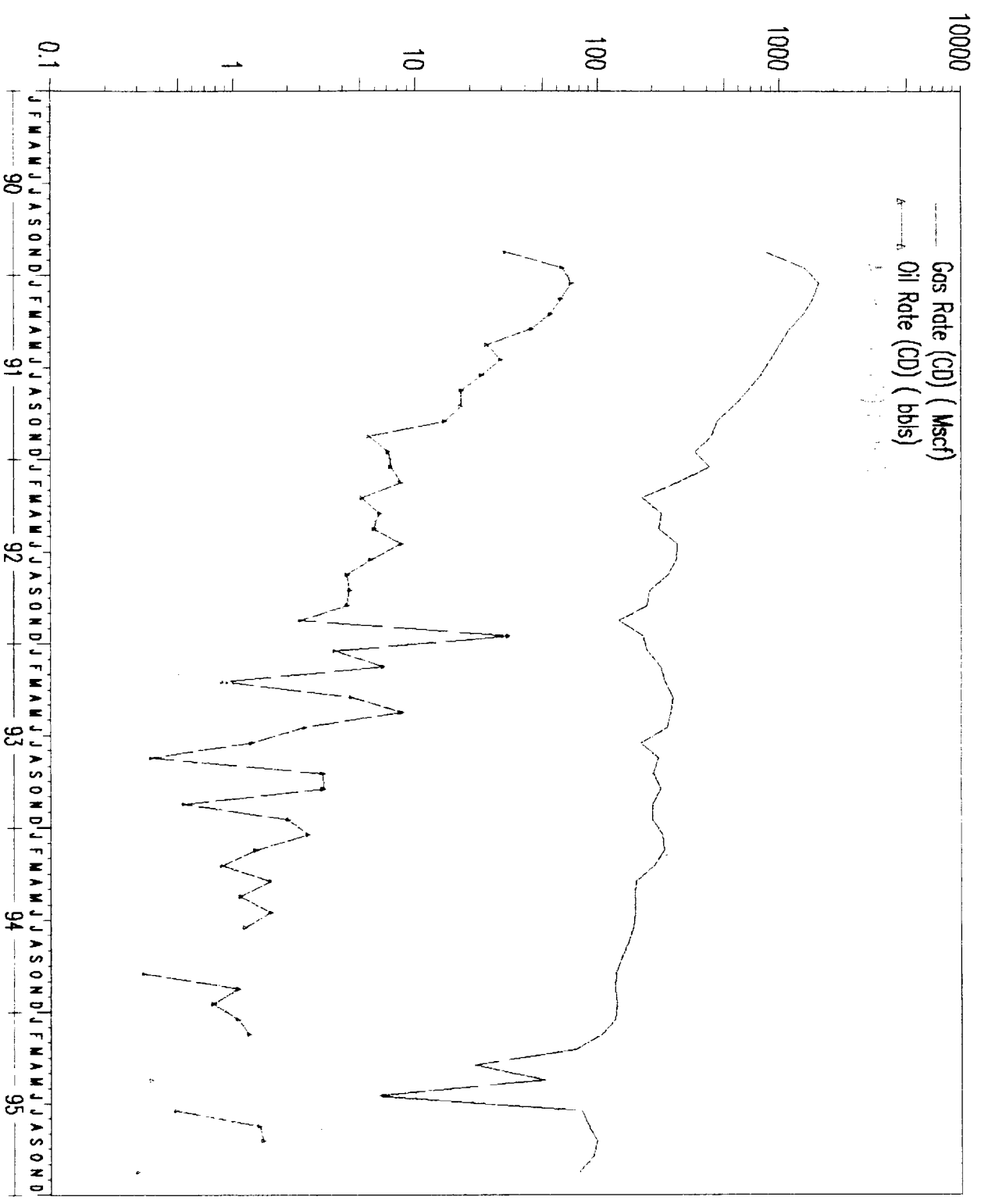
REVISÉD 3/94

FIELD : GEM MORROW

LEASE : MADURO UNIT FED #1

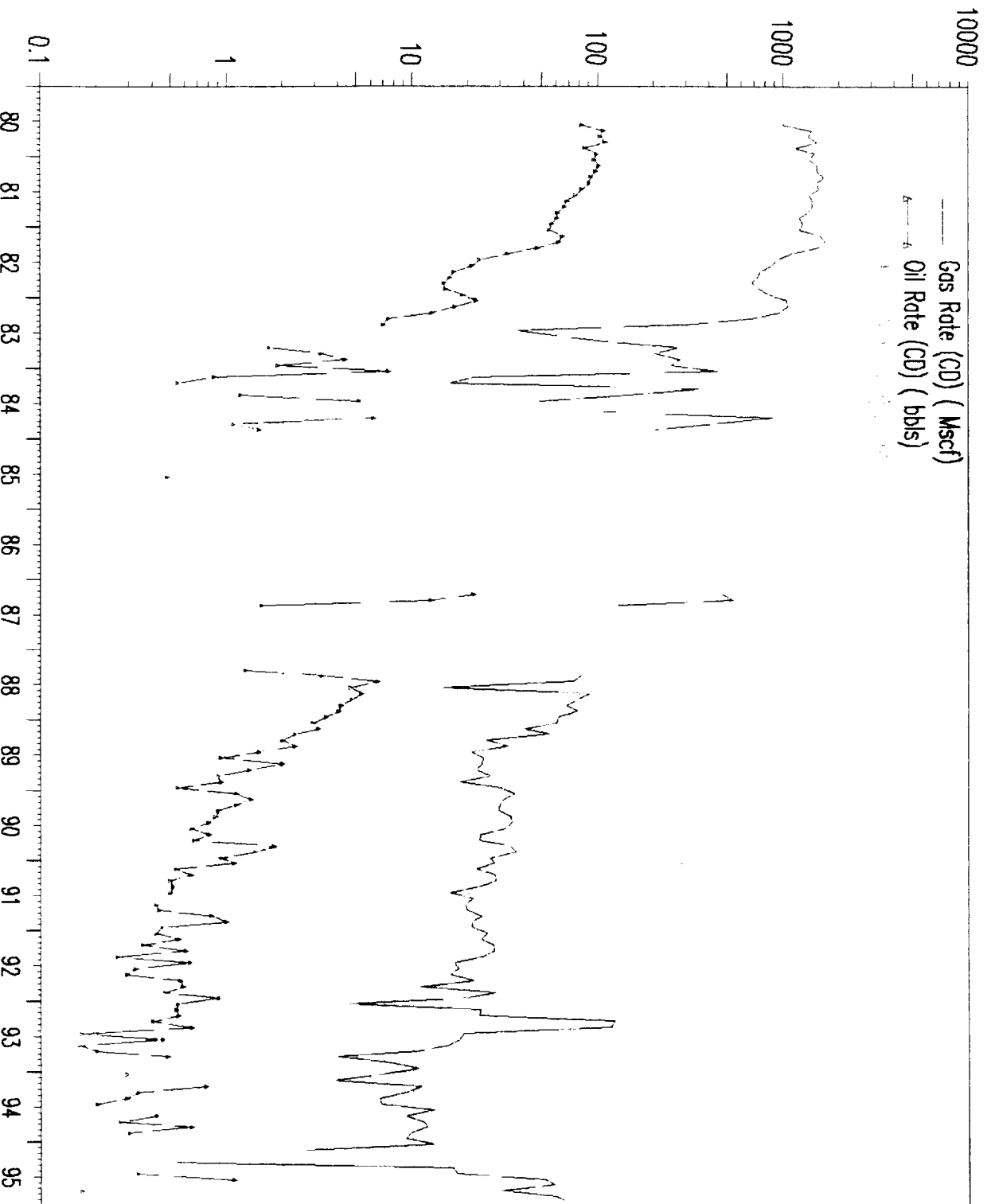


FIELD : GEM MORROW
LEASE : MADURO FED NORTH #4



FIELD : GEM MORROW

LEASE : MADURO UNIT #2



OK
4-3-95

1995 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy & Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay, Director

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1995 Plan of Development for the Maduro Unit Area for the period ending December 31, 1995.

SUMMARY OF 1994 OPERATIONS

No new Unit wells were drilled in 1994. Yearly production for 1994 for each Unit well is shown below:

WELL	COMPLETED INTERVAL	GAS MMCF	CONDENSATE (BBL)
1	Middle Morrow	30.224	30
2	Middle Morrow	3.622	111
4	Upper Morrow	59.392	376

PLAN OF DEVELOPMENT FOR 1995

Union has no plans to drill any new wells or recomplete any existing wells in 1995. We do plan a reservoir stimulation in the Morrow Formation on the Maduro Unit #1 well.

This plan may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

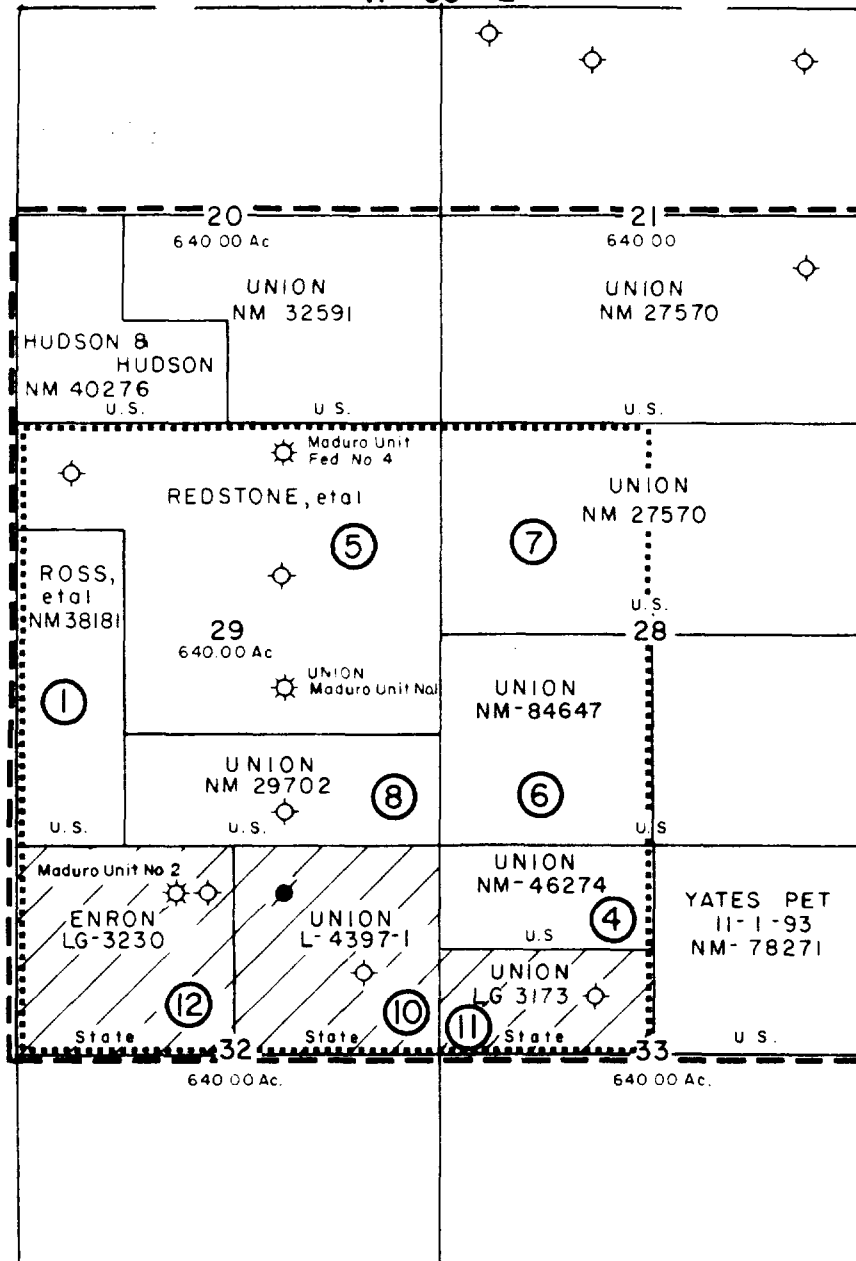
Submitted this 24th day of March, 1995.

Sincerely,
UNION OIL COMPANY OF CALIFORNIA

Linda H. Hicks

Linda H. Hicks
Land Advisor/Contracts

R - 33 - E



T
19
S

EXHIBIT "A" - (REVISED)

MADURO UNIT

LEA COUNTY, NEW MEXICO

(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



TRACT NUMBER - EXHIBIT "B"



FEDERAL 1040.00 Ac. 72.22222 %



STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %



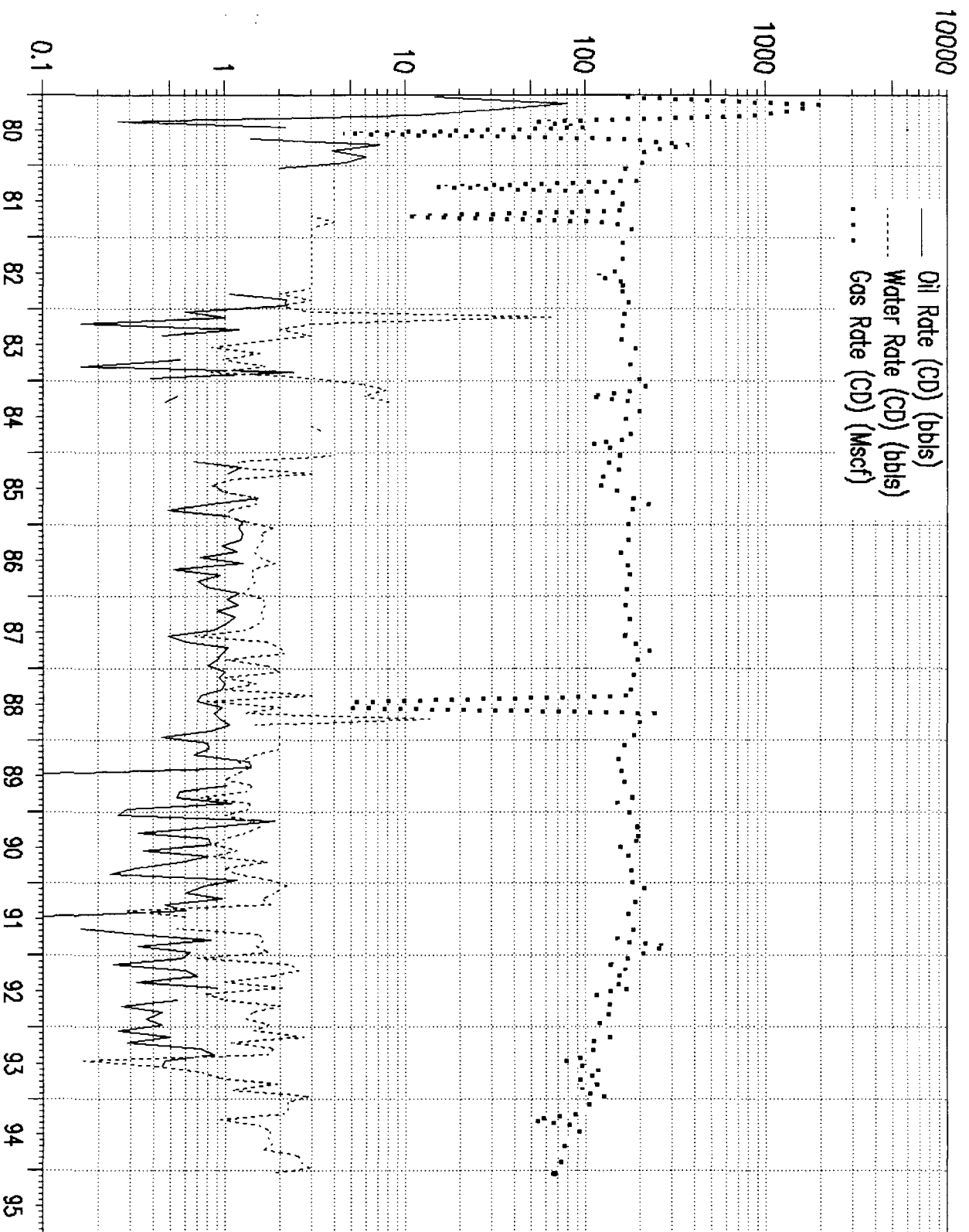
ORIGINAL UNIT BOUNDARY



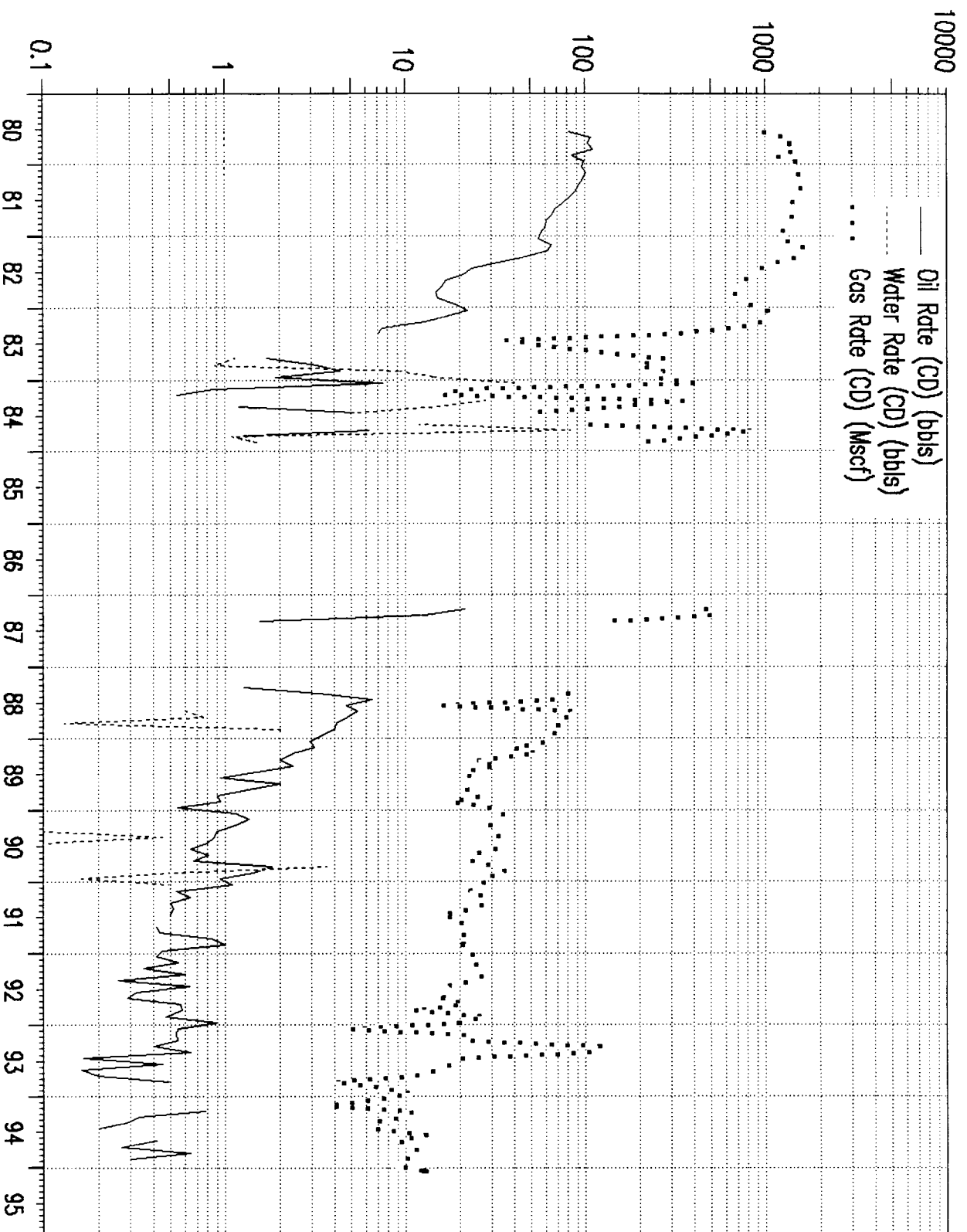
REVISED UNIT BOUNDARY & PARTICIPATING AREA

REVISED 3/94

FIELD : GEM MORROW
LEASE : MADURO FEDERAL UNIT #1



FIELD : GEM MORROW
LEASE : MADURO FEDERAL UNIT #2



LEASE : MADURO FEDERAL UNIT #4





JIM BACA
COMMISSIONER

State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

6516
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1283

April 2, 1993

UNOCAL
P.O. Box 3100
Midland, Texas 79702

Attn: Ms. Linda H. Hicks

Re: 1993 Plan of Development
Maduro Unit
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands has 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 will 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,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

JB/FOP/pm
cc: OCD ✓
BLM

**Unocal North American
Oil & Gas Division**
Unocal Corporation
1004 North Big Spring Street, Suite 300
P.O. Box 3100
Midland, Texas 79702
Telephone (915) 684-8231



Southwestern Region

March 23, 1993

Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay, Director

1993 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Maduro Prospect (8138)

Gentlemen:

Please find enclosed for your approval two (2) copies of Union's 1993 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA
dba UNOCAL

A handwritten signature in cursive script, appearing to read "Linda H. Hicks".

Linda H. Hicks
Supervisor of Contracts

LHH/jb
Enclosures

**1993 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 88201-2088

Attn: Mr. William J. LeMay, Director
Oil & Gas Division

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1993 Plan of Development for the Maduro Unit Area for the period ending December 31, 1993.

SUMMARY OF 1992 OPERATIONS

No new wells or recompletions in 1992.

<u>WELL NO.</u>	<u>COMPLETED INTERVAL</u>	<u>1992 PRODUCTION MCFPD + BC</u>	<u>CURRENT TEST MCFPD + BCPD</u>
Maduro #1	Middle Morrow	52.608 + 166	126 + 0.25
Maduro #2	Middle Morrow	7.841 + 181	4.5 + 0.54
Maduro #4	Upper Morrow	77.770 + 1861	186 + 5.54

PLAN OF DEVELOPMENT FOR 1993

Union plans to recomplete and add new Morrow pay zones behind pipe in the Maduro Federal Unit No. 1 and No. 2 wells.

This 1993 Plan of Development and Operations may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

Submitted this 23rd day of March, 1993.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Supervisor of Contracts

**1993 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO**

TO: Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 88201-2088

Attn: Mr. William J. LeMay, Director
Oil & Gas Division

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PLAN OF DEVELOPMENT FOR 1993

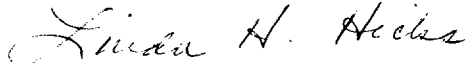
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Submitted this 23rd day of March, 1993.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Supervisor of Contracts

UNION OIL CO OF CAL

MADURO UNIT FED.

WELL#4

State	Dist	County	Location
NM(30)	2	025 LEA	29B 19S 33E

API #	Field (#8030423)	Reservoir
30-025-30840	GEM (MORROW)	PM MORROW

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	228	14470	12793	407241	22	1
February	242	14712	7888	415129	29	1
March	158	14870	2754	417883	2	1
April	191	15061	6742	424625	3	1
May	183	15244	6722	431347	3	1
June	194	15438	8244	439591	5	1
July	177	15615	8357	447948	0	1
August	131	15746	7522	455470	0	1
September	131	15877	5817	461287	0	1
October	48	15925	1515	462802	1	1
November	70	15995	3906	466708	2	1
December	108	16103	5510	466708	2	1
Total 1992	1861	16103	72260 77770	466708	69	1

UNION OIL CO OF CAL

MADURO UNIT FED.

WELL#1

State	Dist	County	Location
NM(30)	2	025 LEA	29J 19S 33E

API #	Field (#8030423)	Reservoir
30-025-26308	GEM (MORROW)	MORROW

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	18	7674	5437	859387	22	1
February	7	7681	4044	863431	68	1
March	19	7700	5582	869013	79	1
April	21	7721	4500	873513	55	1
May	10	7731	4354	877867	31	1
June	27	7758	5397	883264	62	1
July	0	7758	3549	886813	24	1
August	17	7775	3566	890379	31	1
September	8	7783	4415	894794	60	1
October	14	7797	4428	899222	44	1
November	11	7808	3504	902726	39	1
December	14	7822	3832	902726	54	1
Total 1992	166	7822	48776 52608	902726	569	1

UNION OIL CO OF CAL

MADURO UNIT

WELL#2

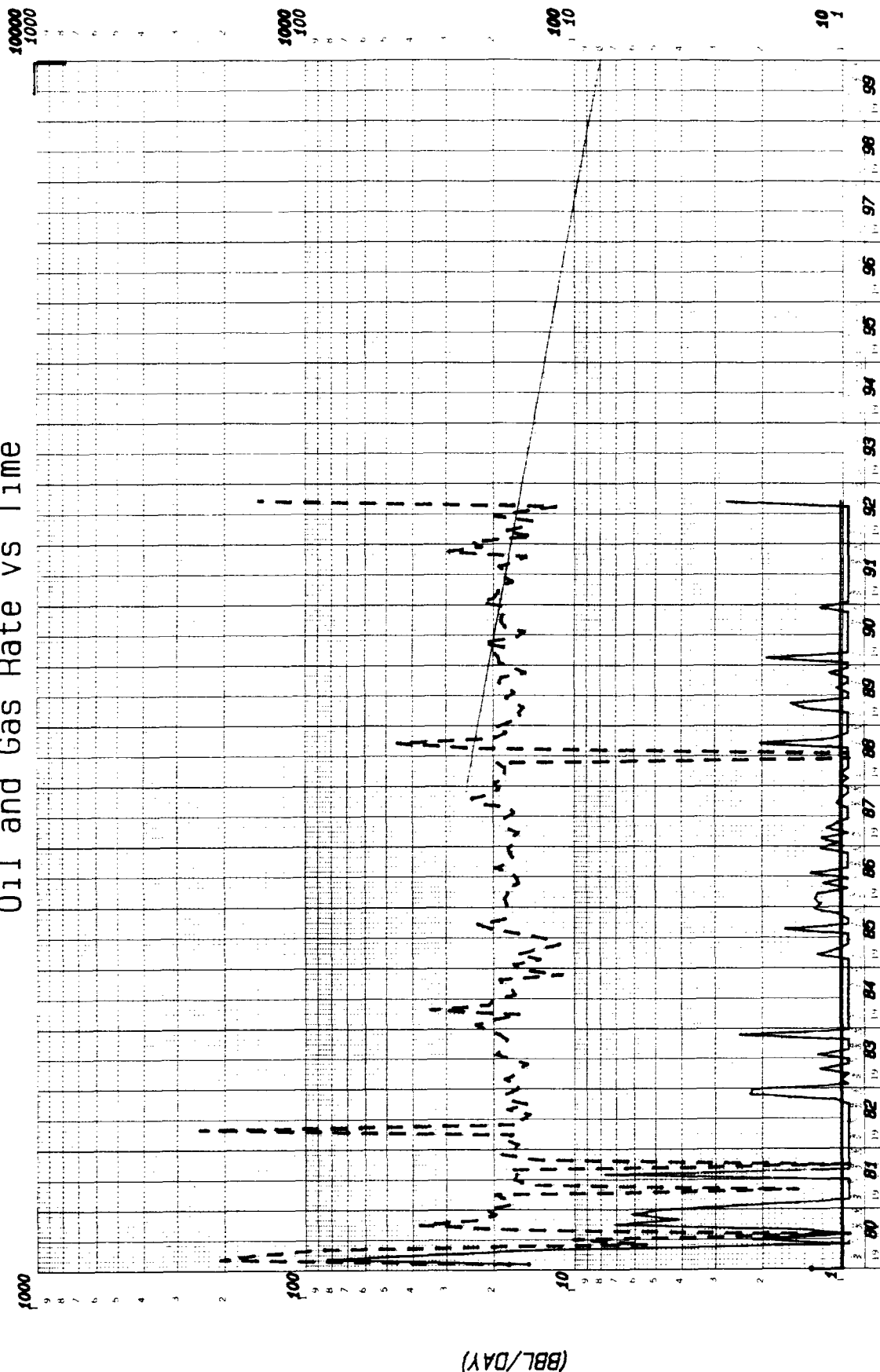
State	Dist	County	Location
NM(30)	2	025 LEA	32C 19S 33E

API #	Field (#8030423)	Reservoir
30-025-26529	GEM (MORROW)	MORROW

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	13	65097	786	1474166	0	1
February	16	65113	682	1474848	0	1
March	11	65124	840	1475688	79	1
April	18	65142	827	1476515	0	1
May	8	65150	735	1477250	0	1
June	19	65169	501	1477751	2	1
July	10	65179	545	1478296	0	1
August	9	65188	499	1478795	0	1
September	17	65205	643	1479438	120	1
October	18	65223	340	1479778	0	1
November	14	65237	831	1480609	21	1
December	28	65265	612	1480609	2	1
Total 1992	181	65265	7229	1480609	224	1

7841

Oil and Gas Rate vs Time



(BBL/DAY)

(MCF/DAY)

(COUNT)

8%

UNOCAL		ANDREWS DISTRICT	
Lease:	MADURO UNIT FED.	# 1	
Field:	GEM (MORROW)		
County:	LEA	NM	
Operator:	UNION OIL CO OF CAL		
Retrieval Code:	250, 025, 19S33E29J00PM		

LEGEND	
WELLS	—
OIL	—
GAS	- - -

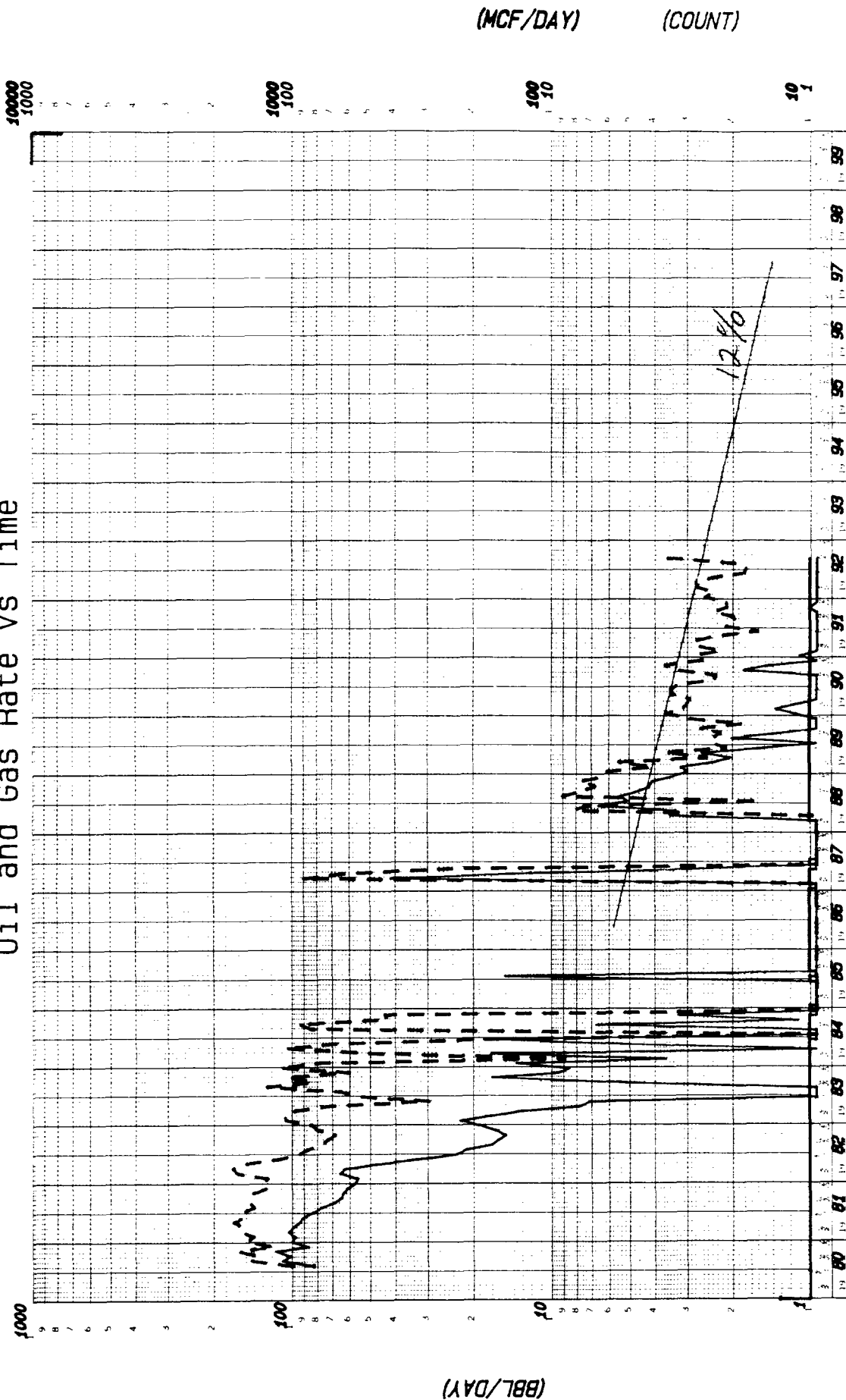
PM

Date: 01-22-93

Cumulative Bo : 7783

Cumulative Mcf: 894794

Oil and Gas Rate vs Time



UNOCAL		ANDREWS DISTRICT	
Lease:	MADURO UNIT	#	2
Field:	GEM (MORROW)		
County:	LEA		NM
Operator:	UNION OIL CO OF CAL		
Retrieval Code:	250, 025, 19533E32C00PM		

LEGEND	
WELLS	---
OIL	---
GAS	---

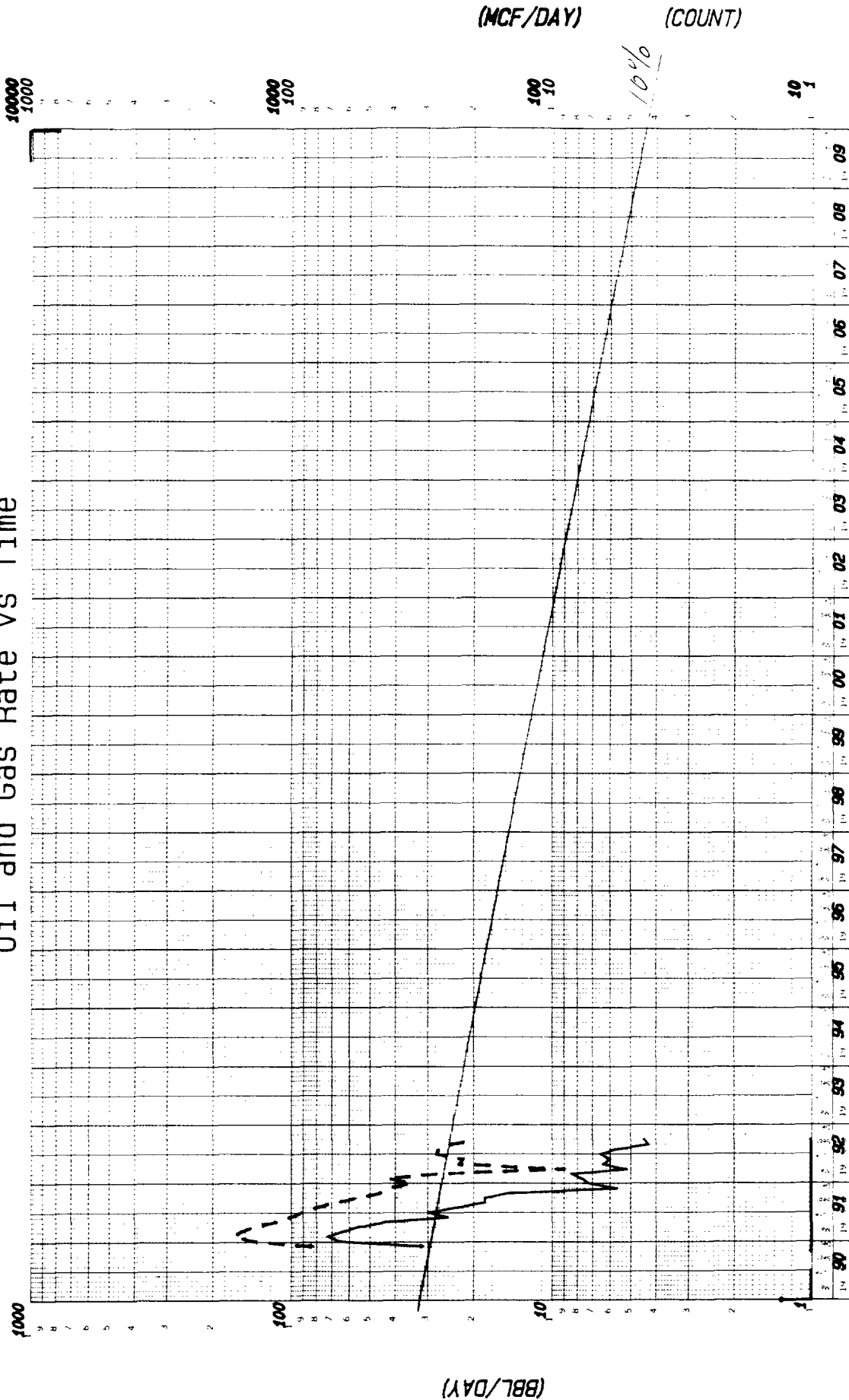
PM

Date: 01-22-93

Cumulative Bo : 68206

Cumulative Mcf: 1479438

Oil and Gas Rate vs Time



UNOCAL		ANDREWS DISTRICT	
Lease:	MADURO UNIT FED.		
Field:	GEM (MORROW)		
County:	LEA		NM
Operator:	UNION OIL CO OF CAL		
Retrieval Code:	250, 025, 19S33E29B00PM		

LEGEND	
WELLS	—
OIL	—
GAS	- - -

PM

Date: 01-22-93

Cumulative Bo : 15877

Cumulative Mcf: 461287

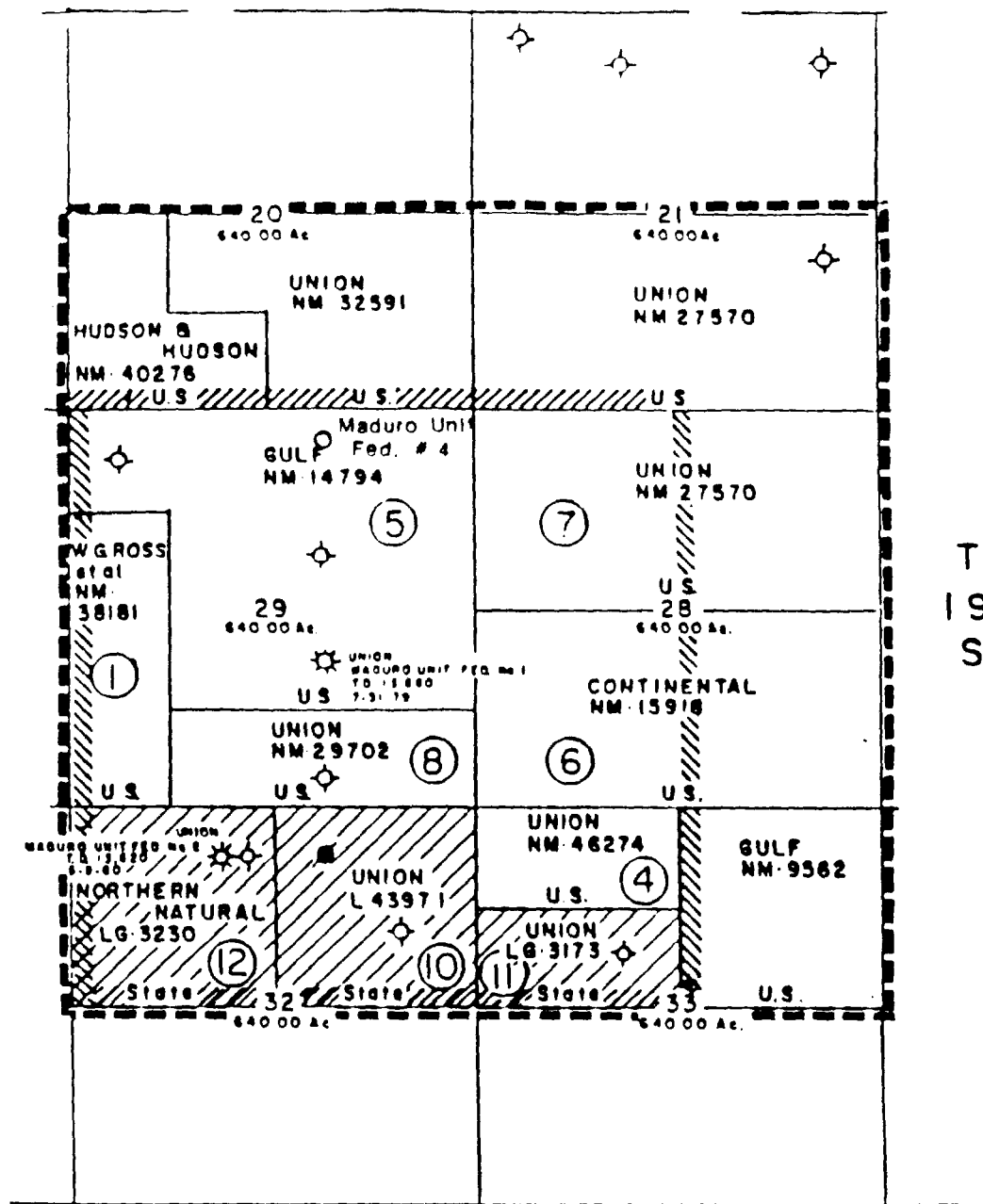



EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



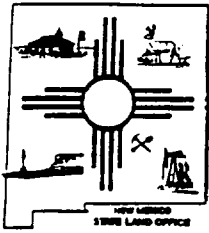
① TRACT NUMBER - EXHIBIT "B"

 FEDERAL 1040.00 Ac. 72.22222 %

 STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %

 ORIGINAL UNIT BOUNDARY

 REVISED UNIT BOUNDARY & PARTICIPATING AREA



State of New Mexico
Commissioner of Public Lands

#6516

W. R. Humphries
COMMISSIONER April 27, 1990

Advisory Board

George Clark
Chairman

UNOCAL

Kristin Conniff
Vice Chairman

P.O. Box 3100
Midland, Texas 79702

Melvin Cordova

Joe Kelly

Robert Portillos

ATTN: Ms. Linda Hicks

Nancy Lynch Vigil

RE: Maduro Unit

Rex Wilson

1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the Maduro Unit. 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 will be contacted at a later date regarding these possibilities.

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact this office at (505) 827-5746.

Very truly yours,

W.R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY:

F. O. Prando

FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5746

cc: OCD - Santa Fe, New Mexico
BLM
Unit Correspondence File
Unit P.O.D. File

WRH/FOP/SMH

Unocal North American
Oil & Gas Division
Unocal Corporation
1004 North Big Spring Street, Suite 300
P.O. Box 3100
Midland, Texas 79702
Telephone (915) 684-8231

#6516

1990 MAR 29 AM 9 34



Southwestern Region

March 27, 1990

Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Attn: Mr. William J. LeMay,
Director

Re: 1990 Plan of Development
~~Maduro~~ **Unit**
Lea County, New Mexico
Union's Maduro Prospect
(8138)

Gentlemen:

Please find enclosed for your approval two copies of Union's 1990 Plan of Development for the Maduro Unit, necessitated by our plan to drill another Morrow well by the end of the year.

Should you have any questions, please let me know.

Sincerely yours,

Union Oil Company of California

Linda H. Hicks
Supervisor of Contracts

LHH:jpp

Enclosures

1990 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Attn: Mr. William J. LeMay,
Director

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1990 Plan of Development for the Maduro Unit Area for the period ending December 31, 1990.

SUMMARY OF 1989 OPERATIONS:

The Maduro Unit Well No. 4 was spudded December 18, 1989 in Section 29, T-19-S, R-33-E. This well is still in the process of being completed. Production for the past year is summarized in the table below.

Well No.	Completed Interval	1989 Production MMCF + BC	Current Test MCF/D + BC/D
Maduro Unit #1	Middle Morrow	58.9 + 264	143 + 1
Maduro Unit #2	Middle Morrow	11.1 + 634	22 + 1

PLAN OF DEVELOPMENT FOR 1990

Union plans to finish the completion of the Maduro Unit Well No. 4. A recompletion of the Maduro Unit Well No. 2 may also be attempted in the Middle Morrow. Union has no current plans to drill any new wells in the Unit in 1990.

This 1990 Plan of Development and Operations may be modified or supplemented from time to time with the necessary approval, when necessary, to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

Submitted this 27 day of March, 1990.

Sincerely yours,

Union Oil Company of California
dba Unocal



Linda H. Hicks
Supervisor of Contracts

LHH:jpp

Maduro Unit Federal #1

	Condensate (Bbls)	Gas (MCF)
<u>1988</u>		
Jan.	31	6057
Feb.	27	5111
Mar.	31	5536
Apr.	29	5365
May	23	5929
June	21	5701
July	30	150
Aug.	27	7546
Sept.	28	6280
Oct.	33	6046
Nov.	25	5291
Dec.	14	6040
<u>1989</u>		
Jan.	25	5395
Feb.	23	4327
Mar.	21	4900
Apr.	41	4577
May	43	4554
June	3	5312
July	0	5109
Aug.	32	5365
Sept.	17	5568
Oct.	17	5708
Nov.	33	4462
Dec.	9	3647

Maduro Unit #2

	Condensate <u>(Bbls)</u>	Gas <u>(MCF)</u>
<u>1988</u>		
Jan.	--	--
Feb.	--	--
Mar.	--	--
Apr.	38	--
May	102	2515
June	196	--
July	145	454
Aug.	166	2777
Sept.	142	2348
Oct.	128	2088
Nov.	121	2306
Dec.	106	1909
<u>1989</u>		
Jan.	91	1866
Feb.	88	1126
Mar.	73	1689
Apr.	60	747
May	73	1012
June	45	629
July	29	744
Aug.	62	734
Sept.	40	663
Oct.	28	816
Nov.	28	543
Dec.	17	576

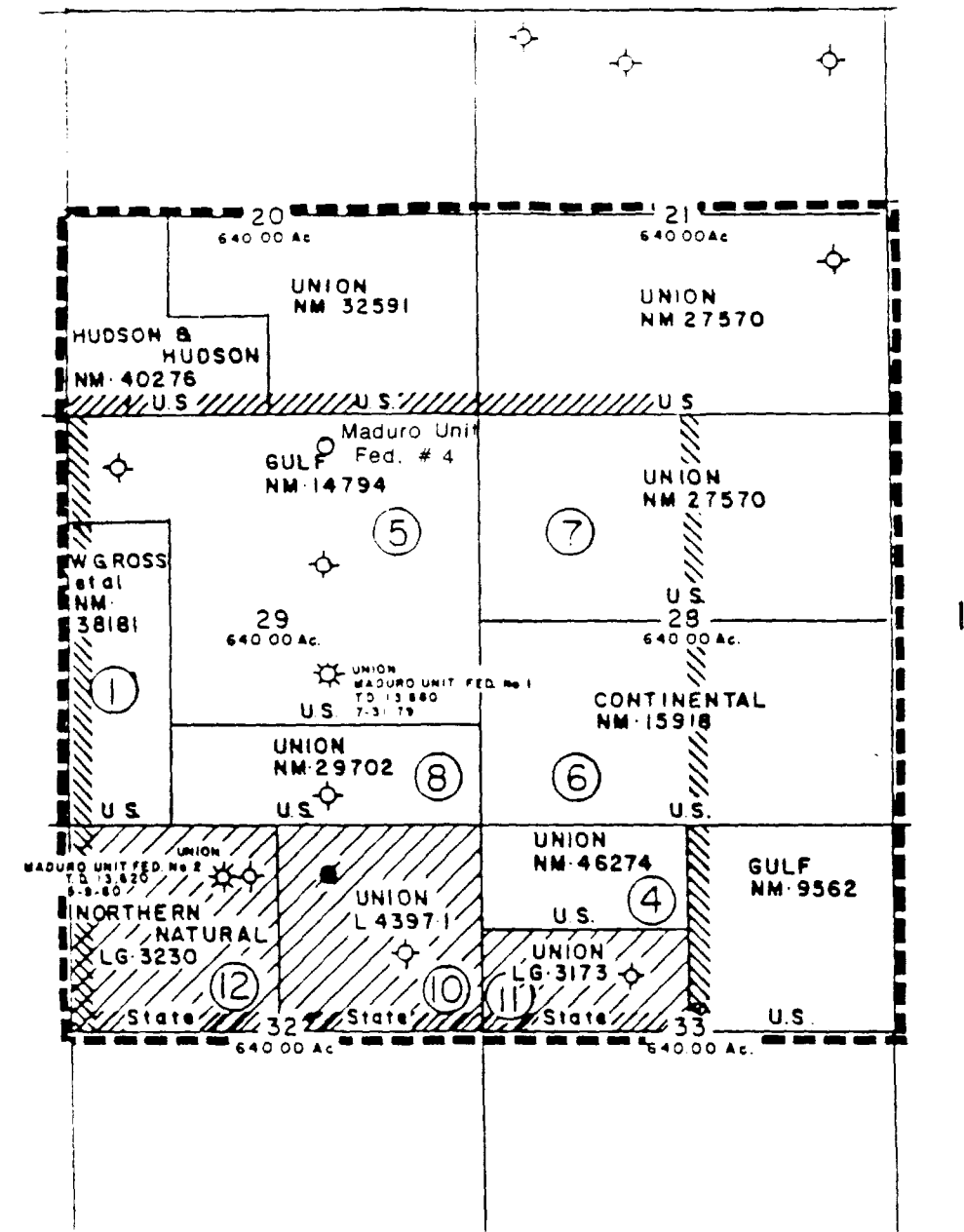






EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



① TRACT NUMBER - EXHIBIT "B"

	FEDERAL	1040.00 Ac.	72.22222 %
	STATE	400.00 Ac.	27.77778 %
		1440.00 Ac.	100.00000 %
	ORIGINAL UNIT BOUNDARY		
	REVISED UNIT BOUNDARY & PARTICIPATING AREA		

1990 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Attn: Mr. William J. LeMay,
Director

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Well No.	Completed Interval	1989 Production		Current Test
		MMCF	+ BC	MCF/D + BC/D
Maduro Unit #1	Middle Morrow	58.9	+ 264	143 + 1
Maduro Unit #2	Middle Morrow	11.1	+ 634	22 + 1

PLAN OF DEVELOPMENT FOR 1990

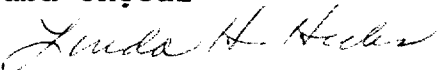
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This 1990 Plan of Development and Operations may be modified or supplemented from time to time with the necessary approval, when necessary, to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

Submitted this 27 day of March, 1990.

Sincerely yours,

Union Oil Company of California
dba Unocal



Linda H. Hicks
Supervisor of Contracts

LHH:jpp

Maduro Unit Federal #1

	Condensate <u>(Bbls)</u>	Gas <u>(MCF)</u>
<u>1988</u>		
Jan.	31	6057
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Mar.	31	5536
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June	21	5701
July	30	150
Aug.	27	7546
Sept.	28	6280
Oct.	33	6046
Nov.	25	5291
Dec.	14	6040
<u>1989</u>		
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Feb.	23	4327
Mar.	21	4900
Apr.	41	4577
May	43	4554
June	3	5312
July	0	5109
Aug.	32	5365
Sept.	17	5568
Oct.	17	5708
Nov.	33	4462
Dec.	9	3647

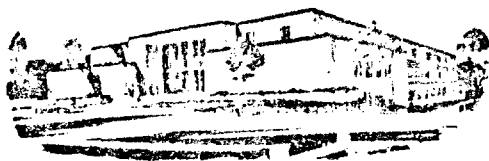
Maduro Unit #2

	Condensate (Bbls)	Gas (MCF)
<u>1988</u>		
Jan.	--	--
Feb.	--	--
Mar.	--	--
Apr.	38	--
May	102	2515
June	196	--
July	145	454
Aug.	166	2777
Sept.	142	2348
Oct.	128	2088
Nov.	121	2306
Dec.	106	1909
<u>1989</u>		
Jan.	91	1866
Feb.	88	1126
Mar.	73	1689
Apr.	60	747
May	73	1012
June	45	629
July	29	744
Aug.	62	734
Sept.	40	663
Oct.	28	816
Nov.	28	543
Dec.	17	576



ALEX J. ARMIJO
COMMISSIONER

State of New Mexico



Commissioner of Public Lands

May 14, 1979

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

Re:Maduro Unit Agreement
Lea County, New Mexico

ATTENTION: Mr. Richard R. Oelze

Gentlemen:

The Commissioner of Public Lands has this date approved your Maduro Unit Agreement, Lea County, New Mexico. The effective date to be as of May 3, 1979, which is the date the United States Geological Survey gave their approval.

Enclosed are Five (5) Certificates of approval.

Your filing fee in the amount of Sixty (\$60.00) Dollars has been received.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

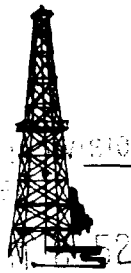
BY:
RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s
encls.

cc: OCD-Santa Fe, New Mexico ✓
 USGS-Roswell, New Mexico
 USGS-Albuquerque, New Mexico

HEYCO

PETROLEUM PRODUCERS



6775
HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 7, 1995

2/22/95
D-unit letter
Terry

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501-2088

Attention: William J. LeMay, Director

Re: Young Deep Unit
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1995 Plan of Development and
Operation

Ladies & Gentlemen:

Attached is a copy of the 1995 Plan of Development and Operation for the Young Deep Unit, with pertinent enclosures. This covers the Bone Spring, Wolfcamp and Delaware Participating Areas.

Harvey E. Yates Company respectfully requests your approval of this Plan of Development.

Very truly yours,

for 
Shari Darr
Land Manager

SAD/dlm
Enclosures

ydupod95.ocd/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

February 7, 1995

ROSWELL, NEW MEXICO 88202-1933

Bureau of Land Management
Roswell District Office
1717 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1995 Plan of Development and
Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1995 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Bone Spring, Delaware and Wolfcamp Participating Areas in the Young Deep Unit.

In this regard, we are enclosing a current unit map showing all existing wells. Also included is production data for 1994, prepared by Ray F. Nokes, Production Manager/Engineer.

Wells converted, deepened, recompleted or drilled in 1994 are as follows:

Date	Well No.	Operation/Result	Unit Letter/Sec.
2/94	21	Opened additional pay in Wolfcamp/169 BOPD Increase	K-3
2/94	8	Frac'd open hole laterals/ 25-30 BOPD Increase	A-9
3/94	13	Opened additional carbonate pay/ 80 BOPD Increase	C-9
3/94	14	Opened additional carbonate pay/ -0- BOPD Increase	B-9
4/94	6	Sidetracked bad casing & completed in Bone Spring 2nd sand/139 BOPD I.P.; 92 BOPD 1/1/95	N-3
10/94	7	Sidetracked bad casing & completed in Bone Spring 2nd sand/159 BOPD I.P.; 150 BOPD 1/1/95	M-3

HEYCO now has three WIWs (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and two wells are Wolfcamp producers (#1 & #21). All others are Bone Spring producers. HEYCO permanently plugged #27 (which never produced) in 1993.

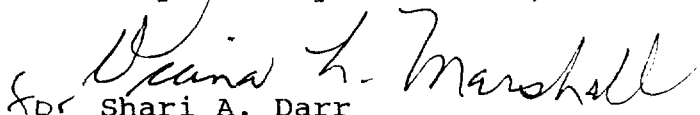
HEYCO anticipates the following activity for 1995:

<u>Well No.</u>	<u>Objective/Depth</u>	<u>Location</u>
21	Recomplete in Bone Spring 2nd Sand	K-3
4-2	Sidetrack bad casing & complete in Wolfcamp	P-4

HEYCO is also studying the feasibility of infill drilling in the Young Deep Unit, with the idea of implementing a four (4) well program if oil prices stabilize in the \$18-20 range.

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,


Shari A. Darr
Land Manager

RFN:SAD/dlm
Enclosures

ydupod95/LL

xc: Commissioner of Public Lands (w/encl.)
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay, Director

HARVEY E. YATES COMPANY (YOUNG DEEP UNIT 1994 PRODUCTION)

HEYCO-WELL PRODUCTION ANALYSIS

2-7-95

NO.	FILE	WELL NAME	DATE CUMS BO	DATE CUMS MCF	DATE CUMS BW	1991'S TOTAL BO	1992'S TOTAL BO	1993'S TOTAL BO	1994'S TOTAL BO	1995'S TOTAL BO	1991'S TOTAL MCF	1992'S TOTAL MCF	1993'S TOTAL MCF	1994'S TOTAL MCF	1995'S TOTAL MCF
113	97560001.XLS	YOUNG DEEP UNIT #1	485,138	393,737	174,577	95,081	88,856	49,359	75,950	6,181	75,464	51,215	37,242	57,998	
114	97560002.XLS	YOUNG DEEP UNIT #2	116,310	101,973	78,051	2,330	1,707	1,551	2,566		6,354	4,891	4,391	6,209	
115	97560004.XLS	YOUNG DEEP UNIT #4	48,506	80,990	90										
116	97560006.XLS	YOUNG DEEP UNIT #6	312,905	297,958	1,978,802	3,804	2,548	425	21,488		7,253	8,317	1,243	37,341	
117	97560007.XLS	YOUNG DEEP UNIT #7	270,737	227,870	1,344,103	3,548	2,384	370	4,655		6,285	7,976	1,121	6,870	
118	97560008.XLS	YOUNG DEEP UNIT #8	85,294	86,905	33,161	2,521	1,915	1,926	5,222		2,846	3,639	3,121	7,356	
119	97560009.XLS	YOUNG DEEP UNIT #9	102,026	201,019	23,751	4,478	3,346	3,753	4,037		11,234	14,149	13,339	11,842	
120	97560010.XLS	YOUNG DEEP UNIT #10	91,607	161,382	14,782	6,015	4,599	6,015	5,016		12,856	17,078	19,976	14,189	
121	97560011.XLS	YOUNG DEEP UNIT #11	361,644	481,728	21,260	21,420	15,584	13,313	16,752		48,007	36,550	32,220	36,229	
122	97560012.XLS	YOUNG DEEP UNIT #12	166,001	145,672	891,844	47,224	29,615	23,451	22,214		39,788	25,994	19,059	16,723	
123	97560013.XLS	YOUNG DEEP UNIT #13	141,445	205,924	74,531	5,840	4,347	3,351	17,104		17,035	13,342	11,113	34,062	
124	97560014.XLS	YOUNG DEEP UNIT #14	104,114	200,489	12,610	6,097	4,588	3,880	3,902		21,459	16,980	15,332	11,083	
125	97560015.XLS	YOUNG DEEP UNIT #15	64,672	95,632	4,322	4,233	3,148	2,530	2,559		7,710	6,078	5,288	9,480	
126	97560017.XLS	YOUNG DEEP UNIT #17	273,948	428,545	11,058	13,271	9,843	8,068	4,010		40,188	31,329	26,812	11,720	
127	97560018.XLS	YOUNG DEEP UNIT #18	14,753	26,375	7,762	2,444	5,169	3,490	3,490		493	11,275	7,315	7,292	
128	97560020.XLS	YOUNG DEEP UNIT #20	96,621	173,986	10,281	38,285	20,356	17,206	14,655		48,150	46,356	48,604	30,516	
129	97560021.XLS	YOUNG DEEP UNIT #21	19,297	20,867	939				19,297					20,867	
129	97560022.XLS	YOUNG DEEP UNIT #22	86,618	120,356	9,017	4,223	3,132	2,704	3,355		6,207	4,838	4,536	9,643	
130	97560023.XLS	YOUNG DEEP UNIT #23	69,169	78,688	14,490	9,046	7,203	5,876	5,387		12,786	9,088	8,402	8,594	
131	97560024.XLS	YOUNG DEEP UNIT #24	105,007	97,507	322,691	30,514	18,326	17,576	12,608		30,725	16,315	15,144	14,275	
132	97560026.XLS	YOUNG DEEP UNIT #26	106,176	186,144	4,264	34,373	26,447	19,665	14,359		46,068	59,500	44,624	27,685	
133	97560028.XLS	YOUNG DEEP UNIT #28	36,599	24,915	33,453		15,872	12,518	8,209		4,323	9,160	8,886	6,889	
134	97560029.XLS	YOUNG DEEP UNIT #29	23,044	35,126	4,922	5,066	7,702	5,396	4,880		4,323	14,460	10,100	6,243	
135	97560031.XLS	YOUNG DEEP UNIT #31	16,765	26,897	6,827	5,752	4,587	3,333	3,093		2,808	13,050	6,053	4,994	
136	97560034.XLS	YOUNG DEEP UNIT #34	64,368	74,083	51,165	166	34,836	18,451	10,915			29,155	26,055	18,873	
137	97561002.XLS	YOUNG DEEP 3 FEDERAL #2	28,655	45,833	99,240	1,321	1,003	918	1,564		1,668	1,660	1,202	1,749	
138	97561003.XLS	YOUNG DEEP 3 FEDERAL #3	54,668	77,812	15,139	1,677	1,259	1,209	2,371		3,014	2,977	2,412	5,744	
139	97561004.XLS	YOUNG DEEP 3 FEDERAL #4	428,369	414,090	810,725	26,132	18,797	15,856	10,375		32,445	30,373	21,206	16,076	
140	97561005.XLS	YOUNG DEEP 3 FEDERAL #5	162,195	309,593	17,027	7,592	5,871	5,275	4,769		9,232	9,427	6,695	3,556	
141	97562001.XLS	YOUNG DEEP 4 FEDERAL #1	196,507	222,957	1,573	3,168	2,631	1,900	70		11,928	10,565	8,483	790	
142	97562002.XLS	YOUNG DEEP 4 FEDERAL #2	537,089	446,869	2,085,097	9,908	7,632	4,350			21,376	27,810	14,294		
143	97562003.XLS	YOUNG DEEP 4 FEDERAL #3	156,090	325,078	1,566	15,886	13,467	11,337	9,406		38,642	34,829	30,035	29,248	
YDU TOTALS (ALL WELLS IN UNIT)			5,275,608	6,310,688	8,801,195	411,415	366,770	286,044	270,558		567,096	568,376	453,040	484,458	
YDU (WOLF CAMP PA) YDU # 1 & 21			301,776	260,516	16,776	95,081	88,856	49,359	25,950		75,464	51,215	37,242	57,998	
YDU (DELAWARE PA) YDU # 28 & 34			100,967	98,998	84,618	166	50,708	30,969	19,124		38,315	34,941	25,742		
YDU (BONE SPRING PA)			4,870,865	5,951,174	8,699,801	316,168	227,206	185,716	225,484		491,632	478,846	380,857	400,718	

Unocal Energy Resources Division

Unocal Corporation
1004 North Big Spring, Suite 300
P.O. Box 3100
Midland, Texas 79702
Telephone (915) 685-7600

6516



Permian Basin Business Unit

March 31, 1994

MAR 31 1994

Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay, Director

1994 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Maduro Prospect (8138)

Gentlemen:

Please find enclosed for your approval two (2) copies of Union's 1994 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA
dba UNOCAL

A handwritten signature in cursive script, reading "Linda H. Hicks".

Linda H. Hicks
Supervisor of Contracts

LHH/jb
Enclosures

1994 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 88201-2088

Attn: Mr. William J. LeMay, Director
Oil & Gas Division

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SUMMARY OF 1993 OPERATIONS

No new wells or recompletions in 1993.

<u>WELL NO.</u>	<u>COMPLETED INTERVAL</u>	<u>1993 PRODUCTION</u> <u>MCFPD + BC</u>
Maduro #1	Middle Morrow	39.987 + 115
Maduro #2	Middle Morrow	11.392 + 126
Maduro #4	Upper Morrow	79.183 + 1112

PLAN OF DEVELOPMENT FOR 1994

The only work to be done includes bottomhole pressure measurements.

This 1994 Plan of Development and Operations may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

Submitted this 31st day of March, 1994.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Land Advisor/Contracts

DWIGHTS ENERGYDATA, INC.
GAS WELL HISTORY
NEW MEXICO GAS SOUTHEAST

RUN DATE: 02/04/94
Published 1/94
(#250,025,19S33E29J00PM)

OPERATOR (#748982)	WELL NAME	WELL #
UNION OIL CO OF CAL	MADURO UNIT FED.	000001

LOCATION	STATE	DIST	COUNTY (#025)	LEASE #
29J 19S 33E	NM	002	LEA	63695

API #	FIELD (#8030423)	RESERVOIR
30-025-2630800	GEM (MORROW) PM	MORROW

TOTAL DEPTH	UPPER PERF	LOWER PERF	GAS GATH	LIQ GATH	GAS GRAV	LIQ GRAV	TEMP GRAD	N-FACTOR
			LLANO	CONTL			0.969	

COMP DATE	1ST PROD DATE	LAST PROD DATE	STATUS DATE	STATUS
	8001	9308		ACT

CUM THRU LPD GAS/MCF	GAS CUM SINCE DATE	CUM THRU LPD COND/BBLS	COND CUM SINCE DATE
930184	FPDAT	7922	FPDAT

DWIGHTS ENERGYDATA, INC.
 UNION OIL CO OF CAL
 MADURO UNIT FED.

RUN DATE: 02/04/94
 Published 1/94
 (#250,025,19S33E29J00PM)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	GAS MCF	CUM GAS MCF	COND BBLs	CUM COND BBLs	WATER BBLs	DAYS ON
JAN	5801	723079	8	7230	31	31
FEB	5283	728362	53	7283	40	28
MAR	6069	734431	26	7309	48	31
APR	5381	739812	10	7319	39	30
MAY	6672	746484	25	7344	31	31
JUN	4856	751340	25	7369	26	30
JUL	4677	756017	11	7380	36	31
AUG	5521	761538	25	7405	27	31
SEP	5512	767050	17	7422	52	30
OCT	5677	772727	10	7432	31	31
NOV	5395	778122	7	7439	35	30
DEC	5279	783401	36	7475	55	30
1990	66123	783401	253	7475	451	
JAN	6783	790184	24	7499	68	31
FEB	5445	795629	17	7516	53	28
MAR	5845	801474	30	7546	50	31
APR	5694	807168	14	7560	54	30
MAY	5186	812354	19	7579	9	31
JUN	5416	817770	3	7582	18	30
JUL	5419	823189	3	7585	3	31
AUG	5829	829018	5	7590	17	31
SEP	4871	833889	10	7600	46	30
OCT	4618	838507	26	7626	51	31
NOV	8712	847219	10	7636	45	30
DEC	6731	853950	20	7656	54	31
1991	70549	853950	181	7656	468	
JAN	5437	859387	18	7674	22	23
FEB	4044	863431	7	7681	68	29
MAR	5582	869013	19	7700	79	31
APR	4500	873513	21	7721	55	30
MAY	4354	877867	10	7731	31	31
JUN	5397	883264	27	7758	62	28
JUL	3549	886813	0	7758	24	23
AUG	3716	890529	17	7775	31	31
SEP	0	890529	0	7775	0	0
OCT	4428	894957	14	7789	44	31
NOV	3504	898461	11	7800	39	30
DEC	3832	902293	14	7814	54	31
1992	48343	902293	158	7814	509	
JAN	3923	906216	8	7822	45	31
FEB	3890	910106	14	7836	77	28
MAR	3140	913246	9	7845	33	31
APR	3325	916571	22	7867	56	30
MAY	4332	920903	27	7894	54	31
JUN	2341	923244	14	7908	5	26
JUL	3060	926304	14	7922	13	31
AUG	3880	930184	0	7922	23	31
1993	27891	930184	108	7922	306	

DWIGHTS ENERGYDATA, INC.
GAS WELL HISTORY
NEW MEXICO GAS SOUTHEAST

RUN DATE: 02/04/94
Published 1/94
(#250,025,19S33E32C00PM)

OPERATOR (#748982)	WELL NAME	WELL #
UNION OIL CO OF CAL	MADURO UNIT	000002

LOCATION	STATE	DIST	COUNTY (#025)	LEASE #
32C 19S 33E	NM	002	LEA	95560

API #	FIELD (#8030423)	RESERVOIR
30-025-2652900	GEM (MORROW) PM	MORROW

TOTAL DEPTH	UPPER PERF	LOWER PERF	GAS GATH	LIQ GATH	GAS GRAV	LIQ GRAV	TEMP GRAD	N-FACTOR
13620	13478	13487	LLANO	SCURP	0.66	48.5	0.969	1.000

COMP DATE	1ST PROD DATE	LAST PROD DATE	STATUS DATE	STATUS
8005	8007	9308		ACT

CUM THRU LPD GAS/MCF	GAS CUM SINCE DATE	CUM THRU LPD COND/BBLs	COND CUM SINCE DATE
1484419	FPDAT	65344	FPDAT

DWIGHTS ENERGYDATA, INC.
 UNION OIL CO OF CAL
 MADURO UNIT

RUN DATE: 02/04/94
 Published 1/94
 (#250,025,19S33E32C00PM)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	GAS MCF	CUM GAS MCF	COND BBLs	CUM COND BBLs	WATER BBLs	DAYS ON
JAN	1093	1455094	35	64527	3	31
FEB	862	1455956	38	64565	0	28
MAR	921	1456877	35	64600	2	31
APR	870	1457747	27	64627	3	30
MAY	1052	1458799	27	64654	14	31
JUN	1031	1459830	24	64678	3	30
JUL	993	1460823	20	64698	0	31
AUG	723	1461546	25	64723	0	31
SEP	689	1462235	20	64743	1	30
OCT	1044	1463279	56	64799	112	31
NOV	1087	1464366	43	64842	15	30
DEC	807	1465173	29	64871	5	31
1990	11172	1465173	379	64871	158	
JAN	855	1466028	34	64905	15	31
FEB	618	1466646	15	64920	2	28
MAR	860	1467506	20	64940	2	31
APR	842	1468348	15	64955	0	30
MAY	706	1469054	16	64971	0	31
JUN	477	1469531	15	64986	0	30
JUL	655	1470186	2	64988	0	31
AUG	598	1470784	13	65001	0	31
SEP	591	1471375	13	65014	0	30
OCT	728	1472103	26	65040	0	31
NOV	626	1472729	30	65070	0	30
DEC	651	1473380	14	65084	0	31
1991	8207	1473380	213	65084	19	
JAN	786	1474166	13	65097	0	31
FEB	682	1474848	16	65113	0	29
MAR	840	1475688	11	65124	79	31
APR	827	1476515	18	65142	0	30
MAY	735	1477250	8	65150	0	31
JUN	501	1477751	19	65169	2	28
JUL	545	1478296	10	65179	0	31
AUG	0	1478296	0	65179	0	0
SEP	0	1478296	0	65179	0	0
OCT	340	1478636	18	65197	0	10
NOV	831	1479467	14	65211	21	30
DEC	612	1480079	28	65239	2	31
1992	6699	1480079	155	65239	104	
JAN	140	1480219	17	65256	0	7
FEB	649	1480868	15	65271	0	28
MAR	705	1481573	17	65288	0	31
APR	644	1482217	12	65300	0	30
MAY	604	1482821	20	65320	1	31
JUN	565	1483386	5	65325	0	29
JUL	553	1483939	14	65339	0	31
AUG	480	1484419	5	65344	0	31
1993	4340	1484419	105	65344	1	

DWIGHTS ENERGYDATA, INC.
GAS WELL HISTORY
NEW MEXICO GAS SOUTHEAST

RUN DATE: 02/04/94
Published 1/94
(#250,025,19S33E29B00PM)

OPERATOR (#748982)	WELL NAME	WELL #
UNION OIL CO OF CAL	MADURO UNIT FED.	000004

LOCATION	STATE	DIST	COUNTY (#025)	LEASE #
29B 19S 33E	NM	002	LEA	92610

API #	FIELD (#8030423)	RESERVOIR
30-025-3084000	GEM (MORROW) PM	MORROW

TOTAL DEPTH	UPPER PERF	LOWER PERF	GAS GATH	LIQ GATH	GAS GRAV	LIQ GRAV	TEMP GRAD	N-FACTOR
13750	13052	13062	MAPGA	KOCHO			0.969	

COMP DATE	1ST PROD DATE	LAST PROD DATE	STATUS DATE	STATUS
	9011	9308		ACT

CUM THRU LPD GAS/MCF	GAS CUM SINCE DATE	CUM THRU LPD COND/BBLs	COND CUM SINCE DATE
526649	FPDAT	16947	FPDAT

DWIGHTS ENERGYDATA, INC.
 UNION OIL CO OF CAL
 MADURO UNIT FED.

RUN DATE: 02/04/94
 Published 1/94
 (#250,025,19S33E29B00PM)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	GAS MCF	CUM GAS MCF	COND BBLs	CUM COND BBLs	WATER BBLs	DAYS ON
NOV	25094	25094	945	945	1	-
DEC	42526	67620	1995	2940	9	31
1990	67620	67620	2940	2940	10	
JAN	50817	118437	2232	5172	17	31
FEB	42957	161394	1769	6941	10	28
MAR	42328	203722	1711	8652	24	31
APR	33995	237717	1298	9950	12	30
MAY	30884	268601	764	10714	19	31
JUN	26846	295447	887	11601	24	30
JUL	24438	319885	713	12314	20	31
AUG	20748	340633	554	12868	27	31
SEP	16576	357209	535	13403	63	30
OCT	14043	371252	451	13854	19	31
NOV	12637	383889	167	14021	9	30
DEC	10559	394448	221	14242	1	31
1991	326828	394448	11302	14242	245	
JAN	12793	407241	228	14470	22	30
FEB	7888	415129	242	14712	29	29
MAR	2754	417883	158	14870	2	31
APR	6742	424625	191	15061	3	30
MAY	6722	431347	183	15244	3	31
JUN	8244	439591	194	15438	5	30
JUL	8357	447948	177	15615	0	31
AUG	7522	455470	131	15746	0	31
SEP	5817	461287	131	15877	0	30
OCT	1515	462802	48	15925	1	31
NOV	3906	466708	70	15995	2	30
DEC	5510	472218	108	16103	2	31
1992	77770	472218	1861	16103	69	
JAN	5787	478005	112	16215	6	31
FEB	6182	484187	187	16402	6	28
MAR	7254	491441	27	16429	31	31
APR	7762	499203	134	16563	13	30
MAY	8197	507400	260	16823	16	31
JUN	7240	514640	74	16897	12	29
JUL	5359	519999	39	16936	17	31
AUG	6650	526649	11	16947	27	31
1993	54431	526649	844	16947	128	

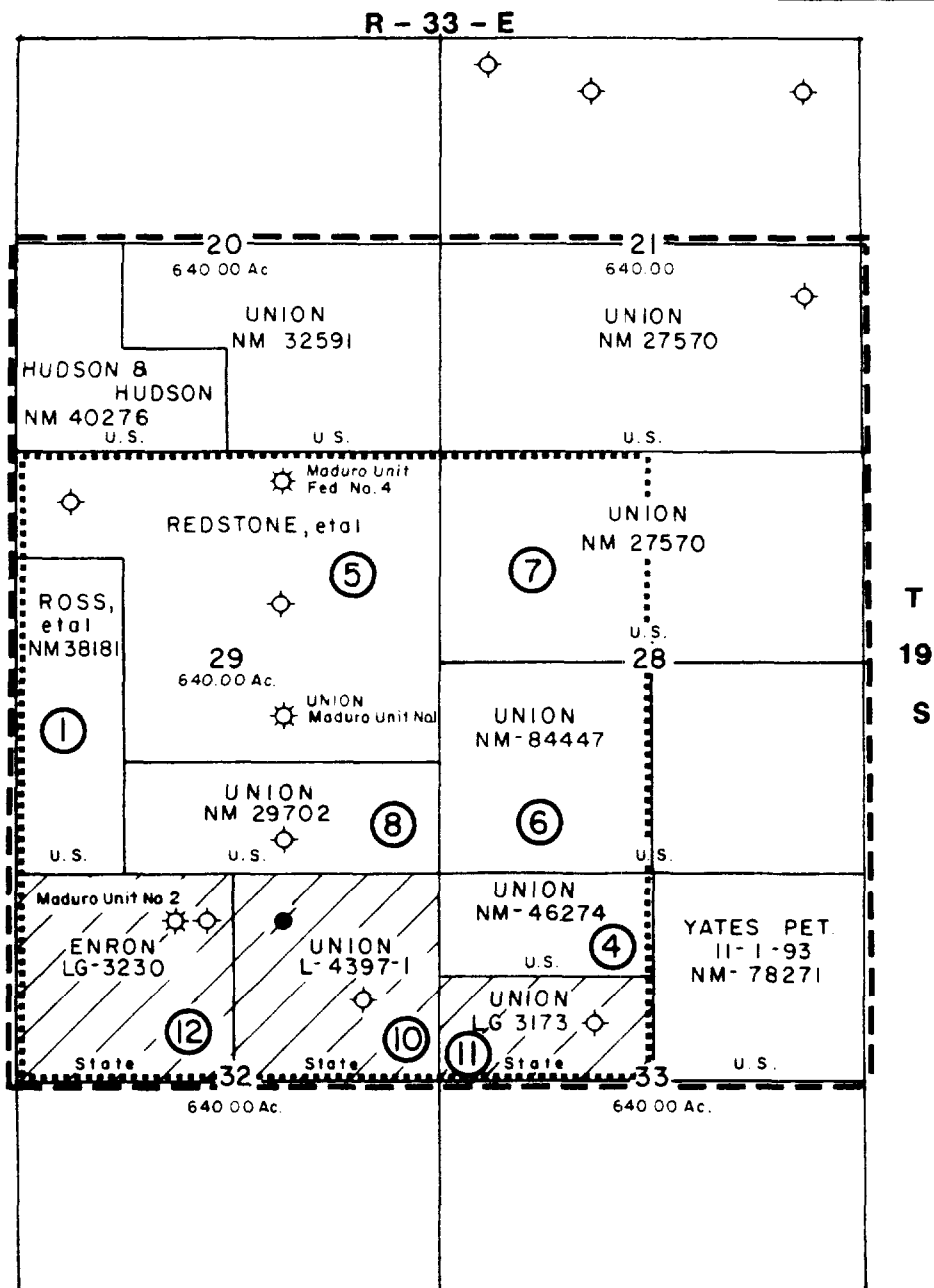


EXHIBIT "A" - (REVISED)
MADURO UNIT
 LEA COUNTY, NEW MEXICO
 (AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



- ① TRACT NUMBER - EXHIBIT "B"
- FEDERAL 1040.00 Ac. 72.22222 %
- STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %
- ORIGINAL UNIT BOUNDARY
- REVISED UNIT BOUNDARY & PARTICIPATING AREA

EXHIBIT B - MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, T-19-S, R-33-E (as contracted effective 8/2/84)

Tract No.	Description of Land	Number of Acres	Serial Number and Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
FEDERAL LAND							
1	Sec. 29: W/2SW/4, SW/4NW/4	120	NM-38181 HBP, HBU	U.S.A. (12.5%)	A11	FROM SURFACE TO 4,000 FEET	
					Phillips Petroleum 50% Ross Family Trust, 25% Vee Kay Ross Trustee 25% Mobil Prod. Texas & New Mexico, Inc. 25%	Paul F. Kasper, Jr - 1/2 of 1%* Vee Kay Ross - 1/2 of 1%* Adele J. Young - 1/4 of 1%** Monument Energy Corp. 1.25%**	Union Oil Company of California 31.91489% Redstone Oil & Gas Company 7.44681% W. Wesley Perry 3.72341% Paul Lerwich Interests 3.72340% Edward R. Hudson Trust 1.38032% Francis H. Hudson 0.69016% Delmar Hudson Lewis 0.69016% Moore & Shelton Company, Ltd. 0.43085% Ross Family Trust 25.00000% Vee Kay Ross Trustee 25.00000% A. C. Holder 25.00000%

Tract No.	Description of Land	Number of Acres	Serial Number and Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
--------------	---------------------	--------------------	---------------------------------------	--	------------------	---	---------------------------------------

1(Cont)							
BELOW 4,000 FEET							
	Paul F. Kasper, Jr -						Union Oil Company of California 31.91489%
	1/2 of 1%***						Redstone Oil & Gas Company 7.44681%
	Vee Kay Ross -						W. Wesley Perry 3.72341%
	1/2 of 1%***						Paul Lerwich Interests 3.72340%
	Adele J. Young -						Edward R. Hudson Trust 1.38032%
	1/4 of 1%***						Francis H. Hudson 0.69016%
	Monument Energy Corp.						Delmar Hudson Lewis 0.69016%
	3/4 of 1%***						Moore & Shelton Company, Ltd. 0.43085%

Vee Kay Ross Trust, 25.000000%
Vee Kay Ross Trustee 25.000000%
Harvey E. Yates 25.000000%

BELOW 13,760 FEET
Phillips Petroleum Company 50.000000%
Ross Family Trust, Vee Kay Ross Trustee 25.000000%
Harvey E. Yates 25.000000%

* - 1% ORR burden is out of respective Working Interests listed
** - ORR burdens are out of Working Interest of A.C. Holder
*** - 1% ORR burden is out of respective Working Interests listed
**** - ORR burdens are out of Working Interest of Harvey E. Yates

Tract No.	Description of Land	Number of Acres	Serial Number and Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
4	Sec. 33: N/2NW/4	80	NM-46274 HBU	U.S.A. (Schedule B)	All Union Oil Company of California	NONE	Union Oil Company of California 80.90828% Edward R. Hudson Trust 2.96446% Francis H. Hudson 1.48223% Delmar Hudson Lewis 1.48223% Moore & Shelton Company, Ltd. 0.97602% Enron Oil & Gas Company 8.62780% Ross Family Trust, Vee Kay Ross Trustee 1.61772% Harvey E. Yates 1.61722% Earl E. Unger 0.32354%
5	Sec. 29: NE/4, N/2NW/4, SE/4NW/4, NE/4SW/4, N/2SE/4	400	NM-14794 HBU	U.S.A. (12.5%)	All Redstone Oil & Gas Co.	Reva Raeda Lowell-5%	Redstone Oil & Gas Co. All

Tract No.	Description of Land	Number of Acres	Serial Number and Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
6	Sec. 28: SW/4	160	NM-84447 HBU	U.S.A. (12.5%)	Union Oil Company of California	Arthur E. Meinhart & wife, Marilyn Meinhart 5%	<u>Surface to 13,760 Feet</u> Union Oil Company of California 81.91489% Redstone Oil & Gas Company 7.44681% W. Wesley Perry 3.72341% Paul Lerwich Interests 3.72340% Edward R. Hudson Trust 1.38032% Francis H. Hudson 0.69016% Delmar Hudson Lewis 0.69016% Moore & Shelton Company, Ltd. 0.43085%
							<u>BELOW 13,760 FEET</u> Union Oil Company of California 100.00000%

Tract No.	Description of Land	Number of Acres	Serial Number and Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
7	Sec. 28: NW/4	160	NM-27570 HBU	U.S.A. (12.5%) A11	Union Oil Company of California	Ben Comroe Doreen Smith 4% 1%	Union Oil Company of California 100.00000%
8	Sec. 29: S/2SE/4, SE/4SW/4	120	NM-29702 HBU	U.S.A. (Schedule B) A11	Union Oil Company of California	NONE	Union Oil Company of California 100.00000%
<u>NEW MEXICO STATE LAND</u>							
10	Sec. 32: NE/4	160	L-4397-1 HBU	State of New Mexico (12.5%) A11	Union Oil Company of California	Roy G. Barton, Jr Norma J. Barton 2.5% 2.5%	Union Oil Company of California 100.00000%
11	Sec. 33: S/2NW/4	80	LG-3173 HBU	State of New Mexico (12.5%) A11	Union Oil Company of California	NONE	Union Oil Company of California 100.00000%
12	Sec. 32: NW/4	160	LG-3230 HBU	State of New Mexico (12.5%) A11	Enron Oil & Gas Company	NONE	Enron Oil & Gas Company 100.00000%
6 Federal Tracts			1040.00 Acres	72.22222% of contracted Unit			
3 New Mexico State Tracts			400.00 Acres	27.77778% of contracted Unit			
TOTAL	9 Tracts		1440.00 Acres in contracted Unit				

#4514

Unocal North American

Oil & Gas Division

Unocal Corporation

1004 North Big Spring Street, Suite 300

P.O. Box 3100

Midland, Texas 79702

Telephone (915) 684-8231

OIL CONSERVATION DIVISION
RECEIVED
'92 MAR 30 AM 9 54

UNOCAL 

Southwestern Region

March 23, 1992

Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay, Director

1992 Plan of Development
Maduro Unit Area
Lea County, New Mexico
Laguna Deep Prospect (7729)

Gentlemen:

Please find enclosed for your approval two (2) copies of Union's 1992 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA
dba UNOCAL



Linda H. Hicks
Supervisor of Contracts

LHH/jb
Enclosures

1992 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy & Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 88201-2088

Attn: Mr. William J. LeMay, Director
Oil & Gas Division

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1992 Plan of Development for the Maduro Unit Area for the period ending December 31, 1992.

SUMMARY OF 1991 OPERATIONS

No new wells or recompletions in 1991.

<u>WELL NO.</u>	<u>COMPLETED INTERVAL</u>	<u>1991 PRODUCTION</u> <u>MCFPD + BC</u>	<u>CURRENT TEST</u> <u>MCFPD + BCPD</u>
Maduro #1	Middle Morrow	70.399 + 181	217 + 1
Maduro #2	Middle Morrow	8.207 + 213	21 + 1
Maduro #4	Upper Morrow	326.828 + 11,302	341 + 7

PLAN OF DEVELOPMENT FOR 1992

Union has no plans to drill any new wells or recomplete any existing wells at this time.

This 1992 Plan of Development and Operations may be modified or supplemented from time to time with the approval needed, when necessary, to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

Submitted this 23 day of March, 1992.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA

Linda H. Hicks

Linda H. Hicks
Supervisor of Contracts

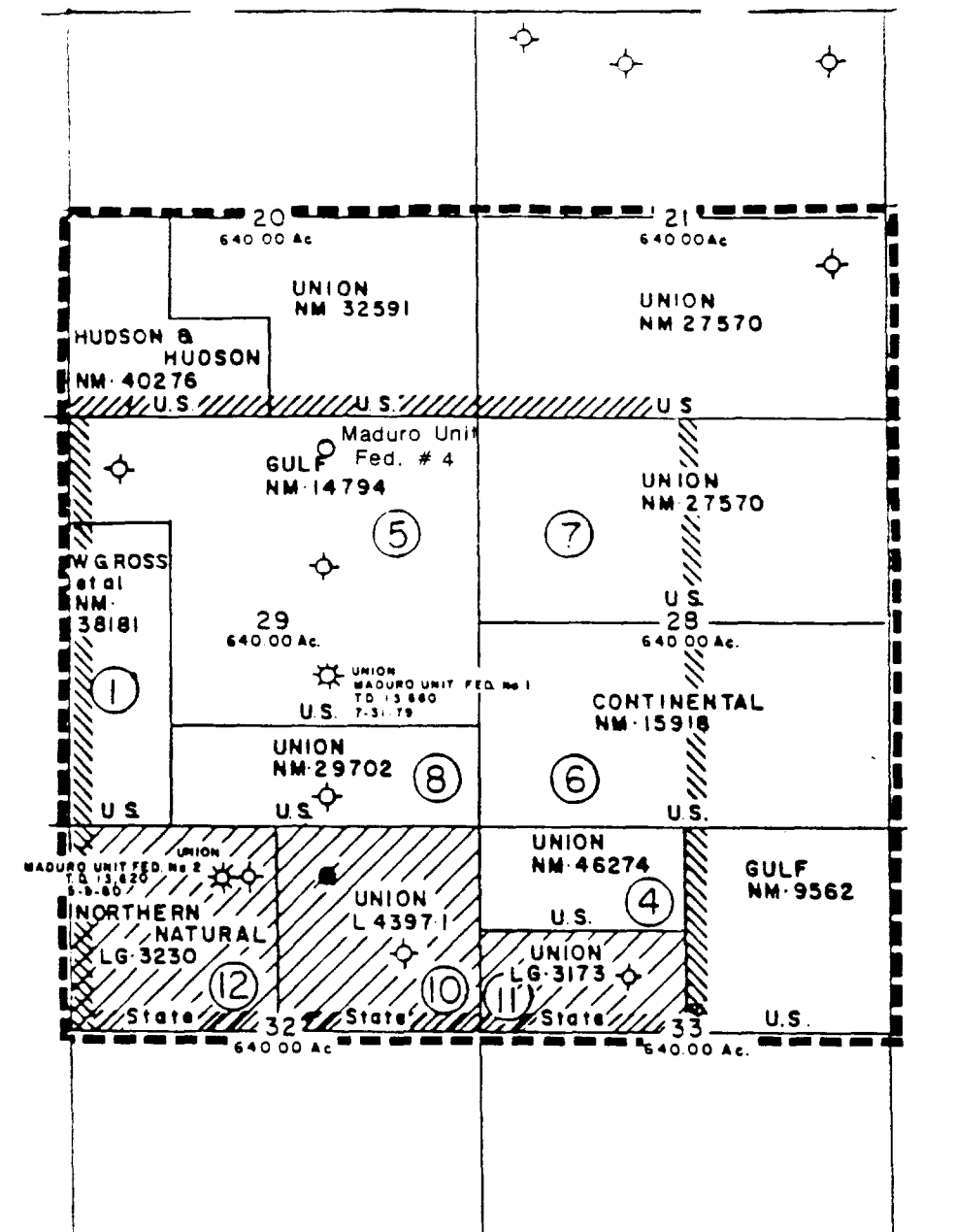


EXHIBIT "A"-(REVISED) MADURO UNIT

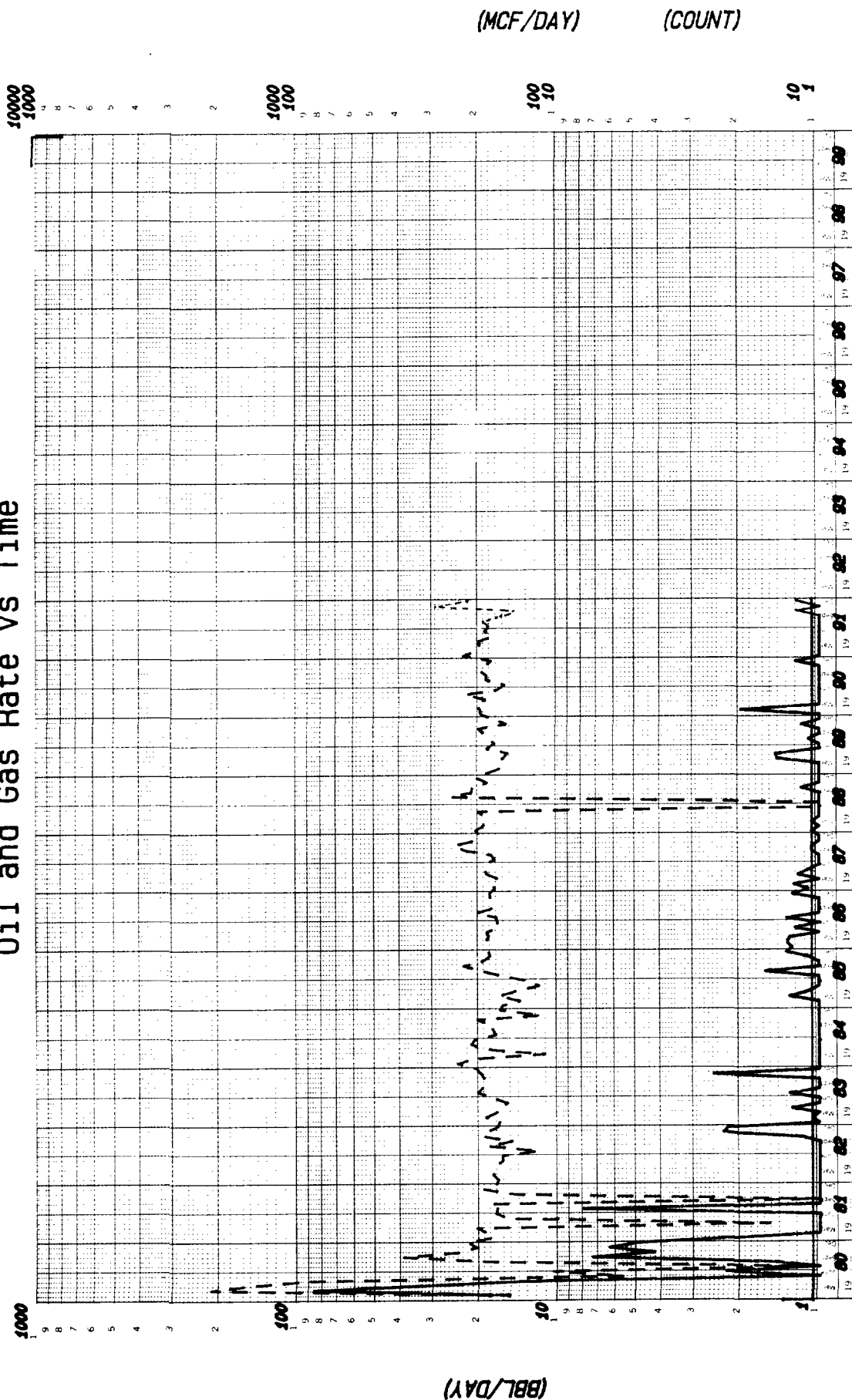
LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)




① TRACT NUMBER - EXHIBIT "B"

	FEDERAL	1040.00 Ac.	72.22222 %
	STATE	400.00 Ac.	27.77778 %
		1440.00 Ac.	100.00000 %
	ORIGINAL UNIT BOUNDARY		
	REVISED UNIT BOUNDARY & PARTICIPATING AREA		

Oil and Gas Rate vs Time



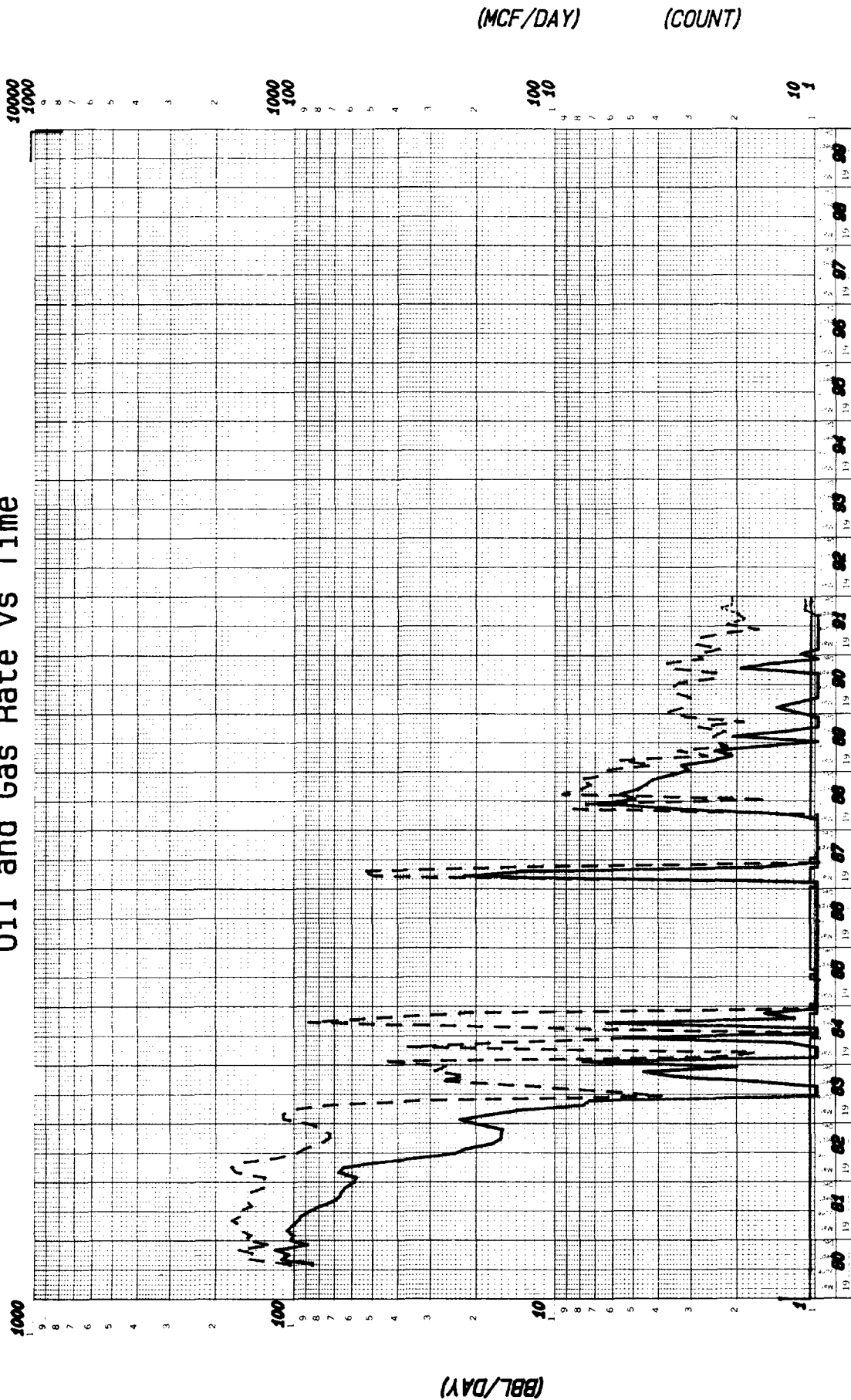
LEGEND	
WELLS	—
OIL	- - -
GAS	- . - .

UNOCAL 		ANDREWS DISTRICT
Lease:	MADURO UNIT FED. #1	
Field:	GEN (MORRON)	
County:	LEA NM	
Operator:	UNION OIL CO OF CAL	
Retrieval Code:	250, 025, 19S33E29J00PM	

PM

Date: 02-14-92
 Cumulative Bo : 7585
 Cumulative Mcf: 823189

Oil and Gas Rate vs Time



LEGEND	
WELLS	—
OIL	—
GAS	- - -

UNOCAL		ANDREWS DISTRICT	
Lease:	MADURO UNIT	#	2
Field:	SEM (MORROW)		
County:	LEA	NW	
Operator:	UNION OIL CO OF CAL		
Retrieval Code:	250, 025, 19S33E32C00PM		

PM

Date: 02-14-92

Cumulative Bo : 64988

Cumulative Mcf: 1470186

**Unocal North American
Oil & Gas Division**

Unocal Corporation
1004 North Big Spring Street, Suite 300
P.O. Box 3100
Midland, Texas 79702
Telephone (915) 684-8231

#6516

UNION DIVISION
RE 10

UNOCAL 

'91 MAR 15 AM 8 45

Southwestern Region

March 15, 1991

3-22-91
D-Unit letter
THX 124

Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay
Director

1991 Plan of Development
Maduro Unit
Lea County, New Mexico
Union's Maduro Prospect (8183)

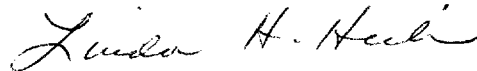
Gentlemen:

Please find enclosed for your approval two copies of Union's 1991 Plan of Development for the Maduro Unit Area.

Should you have any questions, please let me know.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA
dba UNOCAL



Linda H. Hicks
Supervisor of Contracts

LHH/jb
Enclosures

1991 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay
Director

Union Oil Company of California as Unit Operator for the Maduro Unit, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1991 Plan of Development for the North Maduro Unit Area for the period ending December 31, 1991.

SUMMARY OF 1990 OPERATIONS

The Maduro Unit Well #4 was completed April, 1990, and placed on production in November, 1990. Production for 1990 is summarized in the table below.

<u>WELL NO.</u>	<u>COMPLETED INTERVAL</u>	<u>1990 PRODUCTION MMCF + BC or BO</u>	<u>CURRENT TEST MCF + BC/Day</u>
Maduro #1	Middle Morrow	66.1 + 253	180 + 1
Maduro #2	Middle Morrow	11.1 + 379	36 + 1
Maduro #4	Upper Morrow	67.6 + 2940	836 + 64

PLAN OF DEVELOPMENT FOR 1991

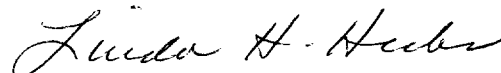
Union has no plans to drill any new wells or recompleate any existing wells at this time.

This 1991 Plan of Development and Operations may be modified or supplemented from time to time with the necessary approval, when necessary, to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

Submitted this 12 day of March, 1991.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks
Supervisor of Contracts

LHH/jb

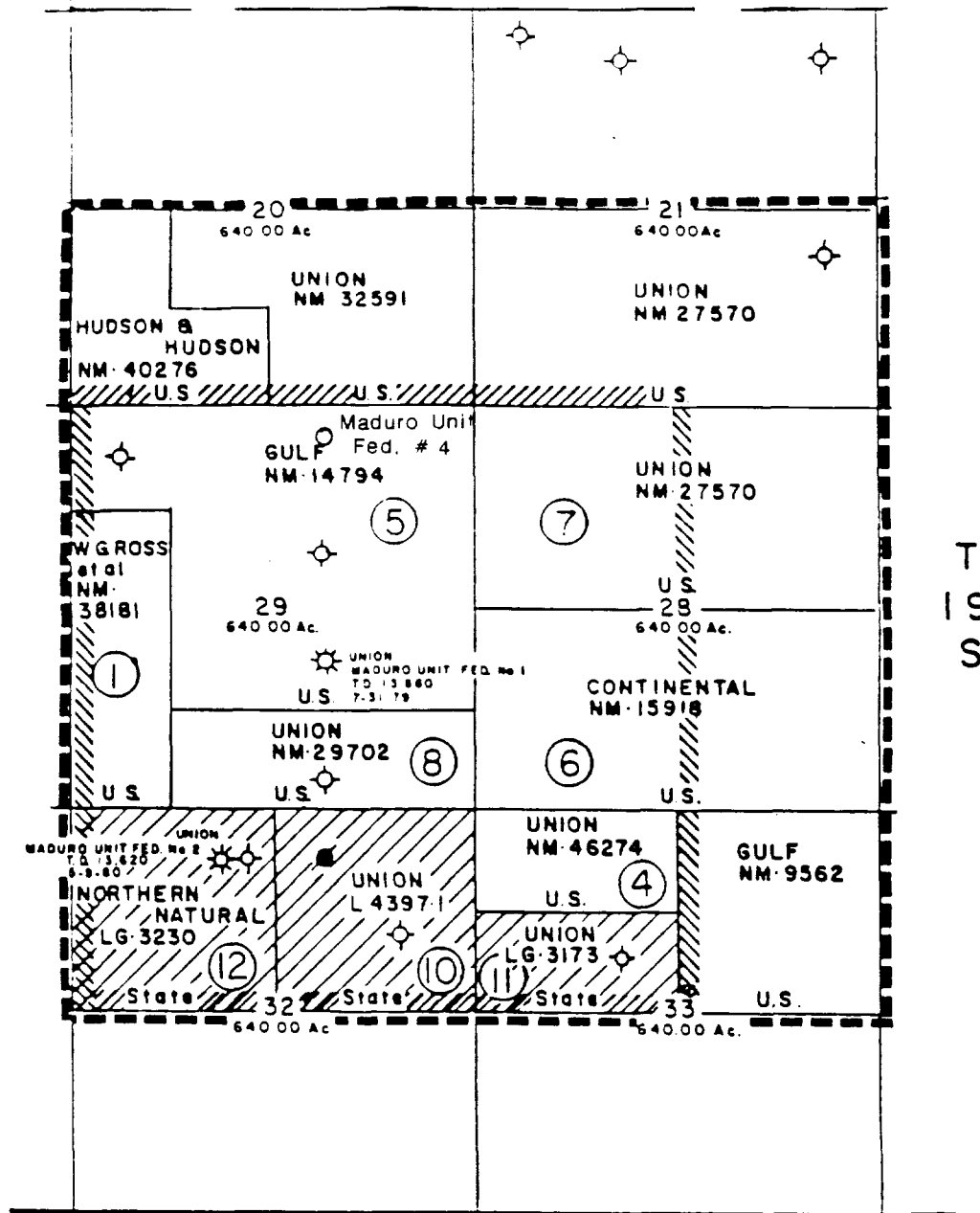


EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



① TRACT NUMBER - EXHIBIT "B"

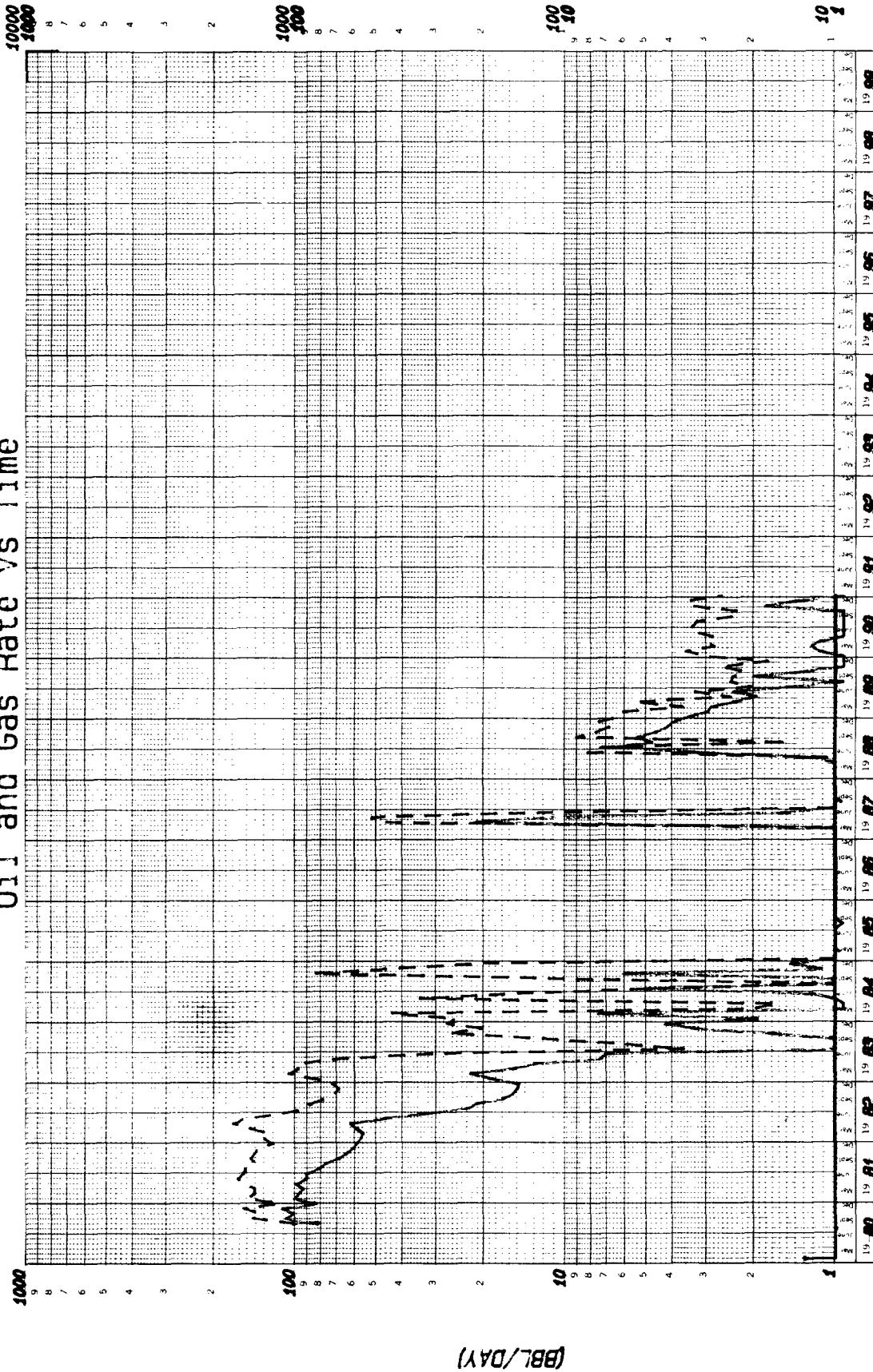
FEDERAL 1040.00 Ac. 72.22222 %

STATE $\frac{400.00 \text{ Ac.}}{1440.00 \text{ Ac.}}$ $\frac{27.77778 \%}{100.00000 \%}$

ORIGINAL UNIT BOUNDARY

REVISED UNIT BOUNDARY & PARTICIPATING AREA

Oil and Gas Rate vs Time



UNOCAL  MIDLAND DISTRICT

Lease: **WALDO UNIT** #2
 Field: **GEN MORROW (GAS)**
 County: **LEA NM**
 Operator: **UNION OIL CO OF CAL**
 Retrieval Code: **250, 025, 16533532000FW**

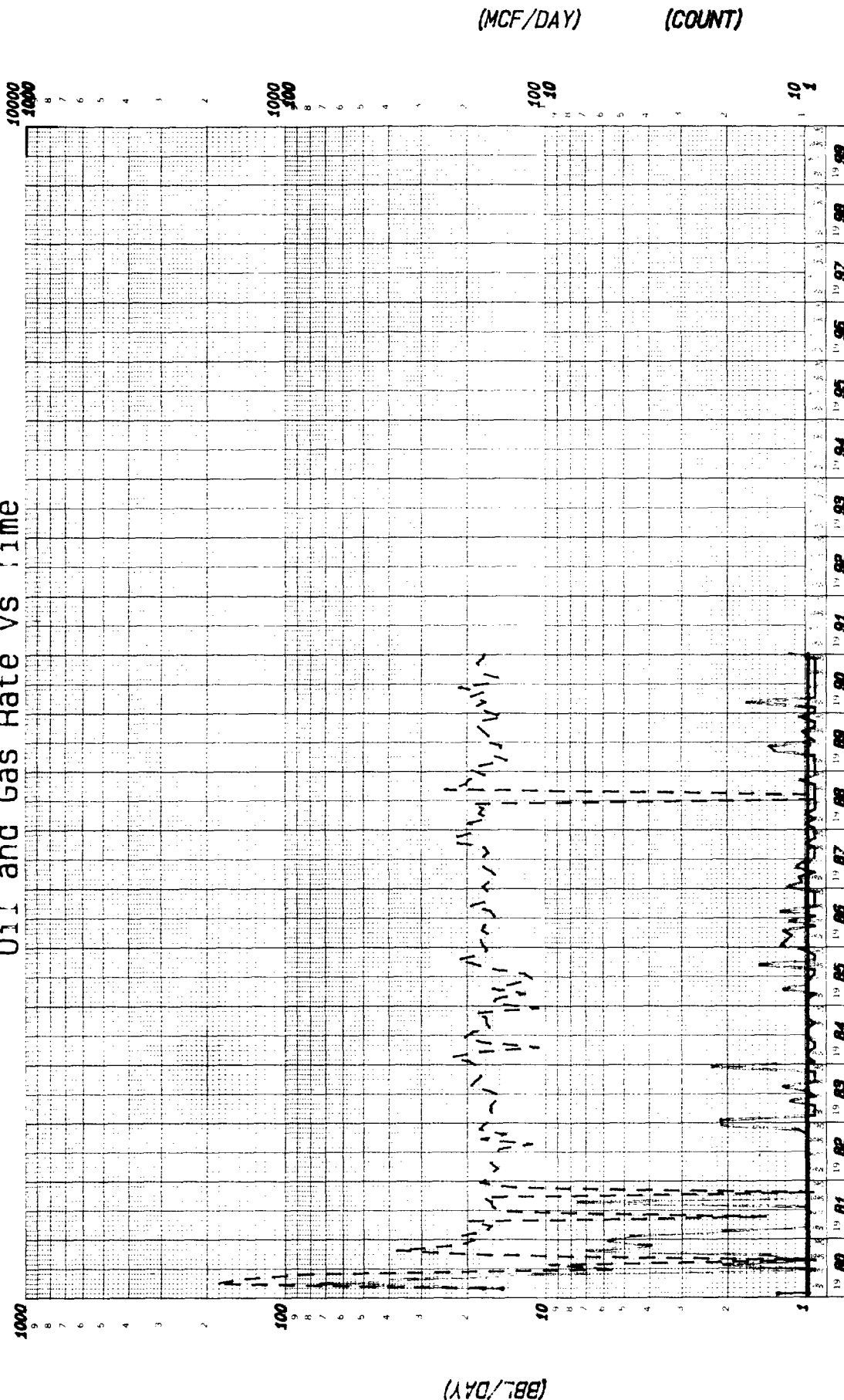
LEGEND

WELLS ———
 OIL - - -
 GAS - - -

PM

Date: 01-28-91
 Cumulative Bo: 64871
 Cumulative Mcf: 1465173

Oil and Gas Rate vs Time



UNOCAL MIDLAND DISTRICT

Lease: MADURO UNIT FED. #1

Field: GEN MORROW (GAS)

County: LEA NM

Operator: UNION OIL CO OF CAL

Retrieval Code: 250, 025, 19533E29, 000PM

LEGEND

WELLS

OIL

GAS

PM

Date: 01-28-91

Cumulative Bo : 7475

Cumulative Mcf: 783401



NICK FRANKLIN
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

April 9, 1979

Mr. James T. Jennings
Jennings, Christy & Copple
Attorneys at Law
Post Office Box 1180
Roswell, New Mexico 88201

Re: CASE NO. 6516
ORDER NO. R-5976

Applicant:

Union Oil Company of California

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC	<u>X</u>
Artesia OCC	<u>X</u>
Aztec OCC	

Other _____

JAMES T. JENNINGS
SIM B. CHRISTY IV
DEAN G. CONSTANTINE

LAW OFFICES OF
JENNINGS & CHRISTY
1012 SECURITY NATIONAL BANK BUILDING
P. O. BOX 1180
ROSWELL, NEW MEXICO 88201

TELEPHONE 622-8432
AREA CODE 505

March 30, 1979

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Richard L. Stamitz

RE: Union Oil Company of California
Application to Approve Maduro Unit,
Case 6516

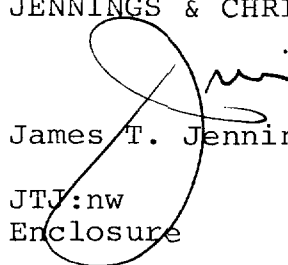


Dear Mr. Stamitz:

By Decision dated March 27, 1979, U.S. Department of the Interior, Geological Survey, gave tentative approval to the Maduro Unit. To complete your files in connection with this matter, a copy of the approval is enclosed herewith.

Yours very truly,

JENNINGS & CHRISTY



James T. Jennings

JTJ:nw
Enclosure

cc: Mr. Robert V. Lockhart
Union Oil Company of California



IN REPLY REFER TO:

United States Department of the Interior

GEOLOGICAL SURVEY

Box 25046

Denver Federal Center

Denver, Colorado 80225

RECEIVED

MAR 29 1979

MIDLAND DISTRICT LAND

MAR 27 1979

Union Oil Company of California
Attention: Mr. Robert V. Lockhart
P. O. Box 3100
Midland, Texas 79702

Gentlemen:

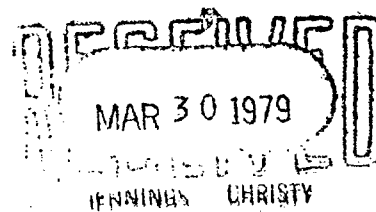
Your application filed with the U.S. Geological Survey office in Roswell, New Mexico, on March 8, 1979, requests the designation of the Maduro unit area embracing 2,560.00 acres, more or less, Lea County, New Mexico, as logically subject to exploration and development under the unitization provisions of the Mineral Leasing Act, as amended.

Pursuant to unit plan regulations 30 CFR 226, the land requested as outlined on your plat marked "Exhibit 'A' Maduro Unit, Lea County, New Mexico" is hereby designated as a logical unit area.

The unit agreement submitted for the area designated should provide for a well to test the Morrow, or to a depth of 13,700 feet. Your proposed use of the Form of Agreement for Unproved Areas will be accepted with the modifications requested in your application.

If conditions are such that further modification of said standard form is deemed necessary, three copies of the proposed modifications with appropriate justification must be submitted to this office through the Oil and Gas Supervisor for preliminary approval.

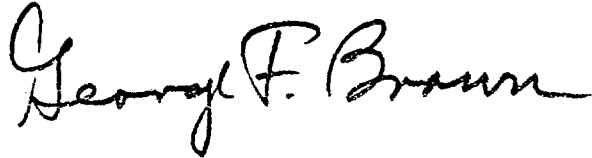
In the absence of any other type of land requiring special provisions or of any objections not now apparent, a duly executed agreement identical with said form, modified as outlined above, will be approved if submitted in approvable status within a reasonable period of time. However, notice is hereby given that the right is reserved to deny approval of any executed agreement submitted which, in our opinion, does not have the full commitment of sufficient lands to afford effective control of operations in the unit area.



When the executed agreement is transmitted to Roswell, New Mexico for the Supervisor's approval, include the latest status of all acreage. In preparation of Exhibits "A" and "B", follow closely the format of the sample exhibits attached to the 1968 reprint of the aforementioned form.

Inasmuch as this unit agreement involves State land, we are sending a copy of the letter to the Commissioner of Public Lands in Santa Fe. Please contact the State of New Mexico before soliciting joinders regardless of prior contacts or clearances from the State.

Sincerely yours.

A handwritten signature in cursive script that reads "George F. Brown". The signature is written in dark ink and is positioned above the typed name and title.

Atty Regional Conservation Manager
For the Director

Enclosure

State of New Mexico



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

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

SLO REF NO. OG-1060

March 27, 1989

#6516

UNOCAL Oil & Gas Division
Attn: Linda H. Hicks
P.O. Box 671
Midland, Texas 79702

Re: 1989 Plan of Development
Maduro Unit
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development.


Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours, -

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY: 
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

cc: OCD
BLM

State of New Mexico



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

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

SLO REF NO. OG-1060

March 27, 1989

UNOCAL Oil & Gas Division
Attn: Linda H. Hicks
P.O. Box 671
Midland, Texas 79702

Re: 1989 Plan of Development
Maduro Unit
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development.


Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY: 
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

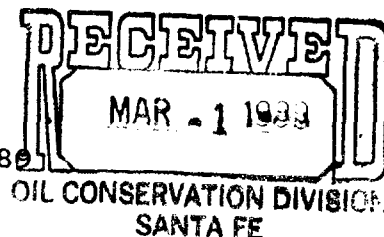
cc: OCD
BLM

Unocal Oil & Gas Division
Unocal Corporation
1004 North Big Spring Street, P.O. Box 671
Midland, Texas 79702
Telephone (915) 682-9731

UNOCAL 

Midland District
Central Region

February 27, 1989



Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay,
Director

1989 Plan of Development
Maduro Unit
Lea County, New Mexico
Union's Maduro Prospect (8138)

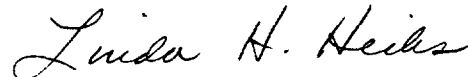
Gentlemen:

Please find enclosed for your approval two copies of Union's 1989 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely yours,

Union Oil Company of California



Linda H. Hicks
Landman

LHH:jpp

Enclosures

1989 PLAN OF DEVELOPMENT
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy and Minerals Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay,
Director

Union Oil Company of California as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area, dated May 31, 1979 (No. 14-08-0001-18028) respectfully submits for approval this 1989 Plan of Development for the Maduro Unit Area. This Plan is for the period ending December 31, 1989.

SUMMARY OF 1988 OPERATIONS:

No new wells were drilled in 1988. Well No. 1 produced 65,000 MCF and 372 BC and currently tests at 149 MCFPD + 1 BCPD. Well No. 2 was perforated at 13,283-304' in the Middle Morrow to return the well to production. In 1988 it produced 14,400 MCF + 1280 BC and currently tests 53 MCFPD + 3 BCPD.

PLAN OF DEVELOPMENT FOR 1989

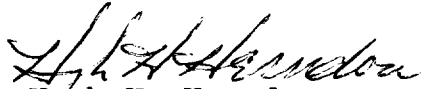
Union has no plans to drill any new wells in the Unit in 1989.

This plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties in the Unit Agreement.

Submitted this 27 day of February, 1989.

Sincerely yours,

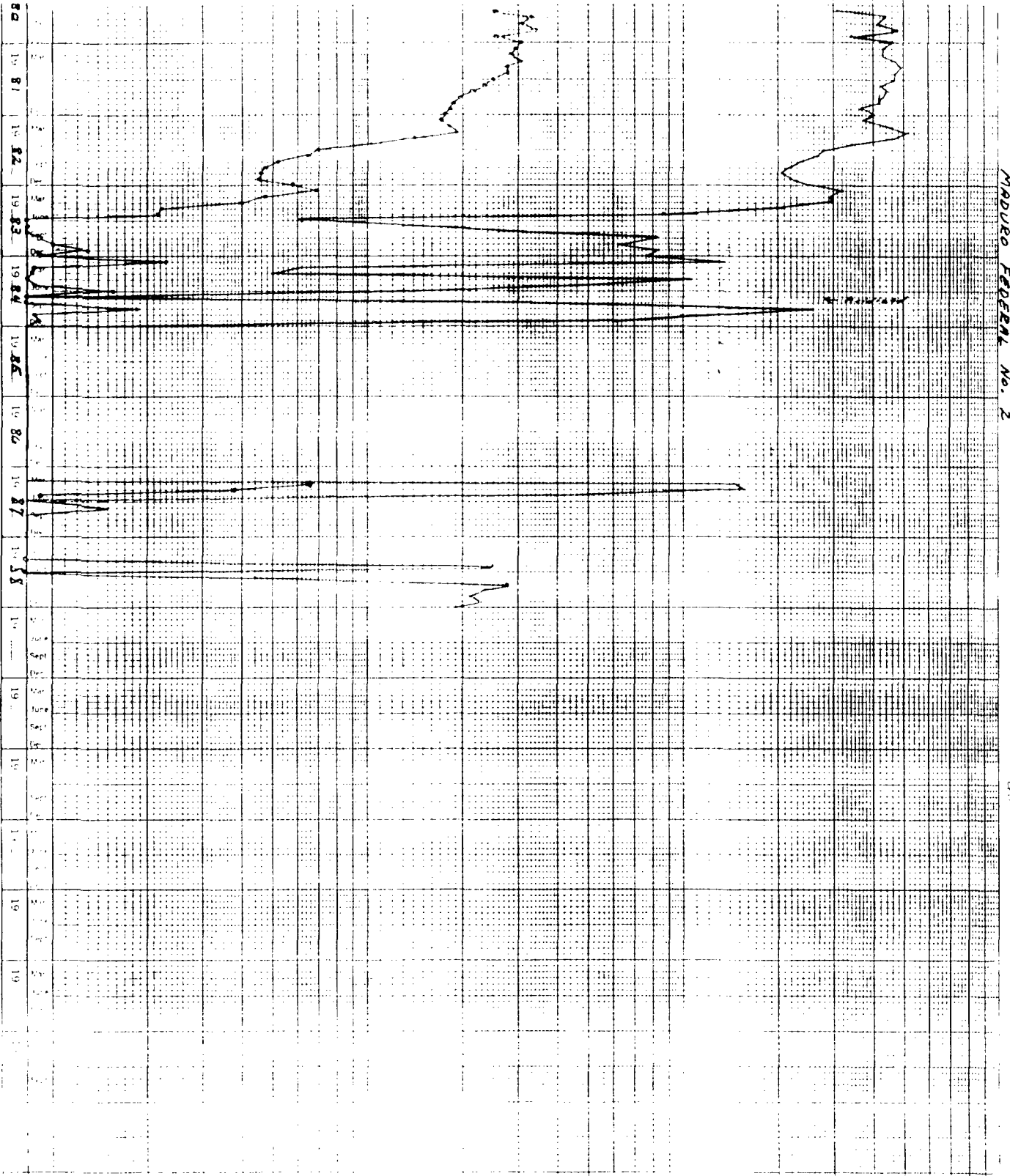
Union Oil Company of California


Hugh H. Herndon
District Land Manager

HHH:LHH:jpp

MADURO FEDERAL NO. 2

GEN. HUNTER,
MADURO UNIT # 2



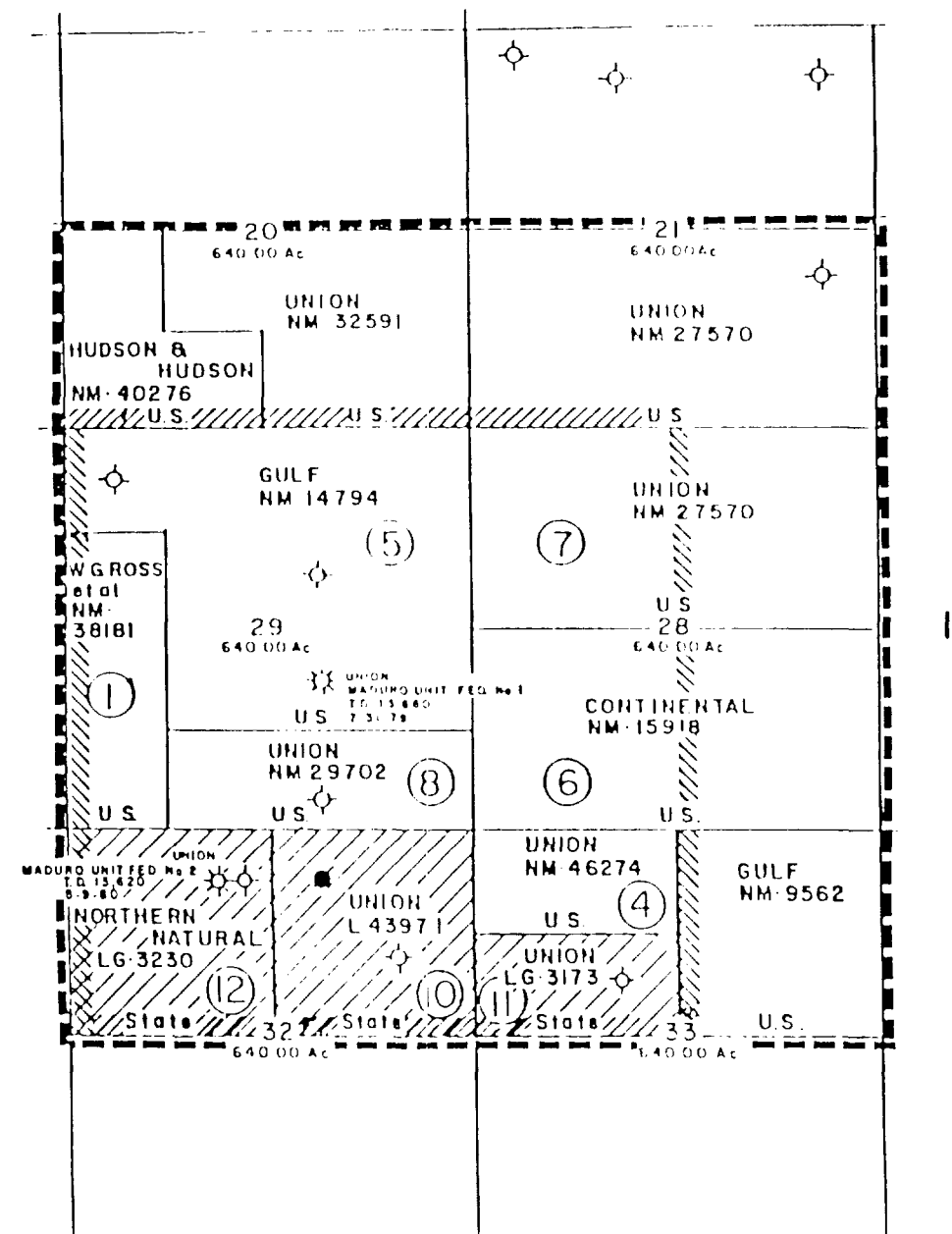




EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)




① TRACT NUMBER - EXHIBIT "B"

 FEDERAL 1040.00 Ac. 72.22222 %

 STATE 400.00 Ac. 27.77778 %
1440.00 Ac. 100.00000 %

 ORIGINAL UNIT BOUNDARY

 REVISED UNIT BOUNDARY & PARTICIPATING AREA

State of New Mexico

6516



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

SLO REF NO OG-717

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

March 24, 1988

Unocal Oil & Gas Division
Attn: Ms. Linda H. Hicks
P. O. Box 671
Midland, Texas 79702

Re: 1988 Plan of Development
Maduro Unit
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved your 1988 Plan of Development for the above captioned unit area.

Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

WRH/FOP/pm
encls.
cc: OCD
BLM



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

March 7, 1988

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Unocal
P. O. Box 671
Midland, Texas 79702

Attention: Linda H. Hicks

Re: 1988 Plan of Development
Maduro Unit
Lea County, New Mexico
Union's Maduro Prospect (8138)

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON,
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque

Unocal Oil & Gas Division
Unocal Corporation
500 North Marienfeld, P.O. Box 671
Midland, Texas 79702
Telephone (915) 682-9731



March 1, 1988

Midland District

Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. William J. LeMay
Director

1988 Plan of Development
Maduro Unit
Lea County, New Mexico
Union's Maduro Prospect (8138)

Gentlemen:

Please find enclosed for your approval two copies of Union's 1988 Plan of Development for the Maduro Unit.

Should you have any questions, please let me know.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "Linda H. Hicks".

Linda H. Hicks
Landman

LHH/s
Enclosures

1988 Plan of Development and Operations
for
MADURO UNIT AREA
Lea County, New Mexico

To: Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. William J. LeMay
Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 31, 1979 (No. 14-08-0001-18028) respectfully submits for approval this 1988 Plan of Development and Operation for the period ending December 31, 1988.

SUMMARY OF 1987 OPERATIONS:

No new wells were drilled in 1987. Well No. 1, a Lower and Middle Morrow producer, produced 61.9 MMCF and 304 BC and currently test 195 MCF + 1 BCPD. Well No. 2 was recompleted in the Middle Morrow in March and produced 34.3 MMCF and 1091 BC in three months. We went in to stimulate the well and communicated to a water zone. The well remains shut-in.

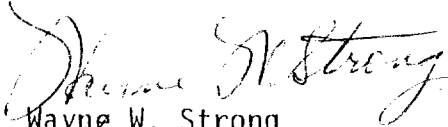
PLAN OF DEVELOPMENT AND OPERATION FOR 1988:

Additional Middle Morrow pay intervals remain to be tested in the Maduro Unit No. 2 and an AFE to working interest owners has been submitted to perform that work.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Sincerely yours,

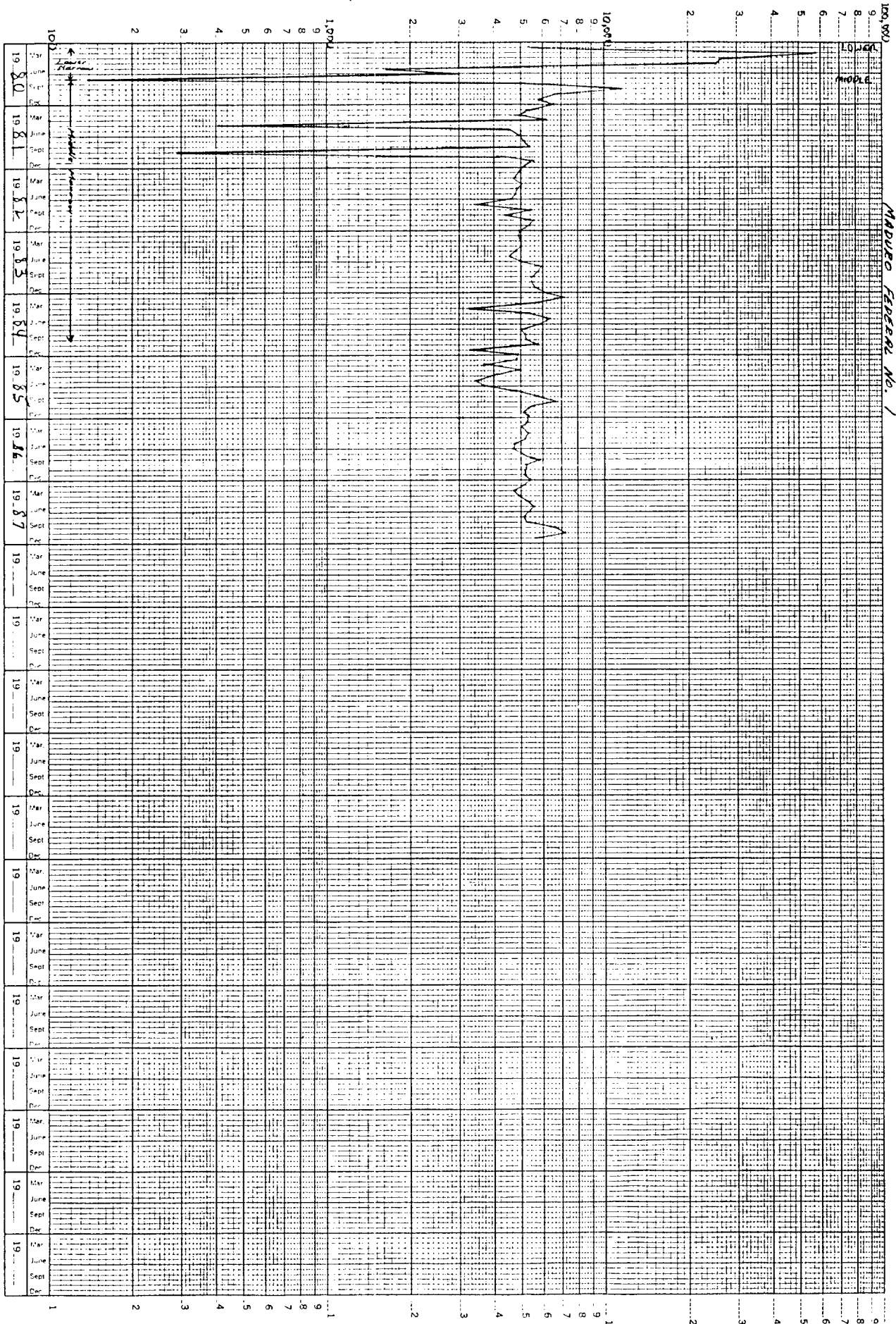
UNION OIL COMPANY OF CALIFORNIA


Wayne W. Strong
District Land Manager

Submitted this 1 day of March, 1988.

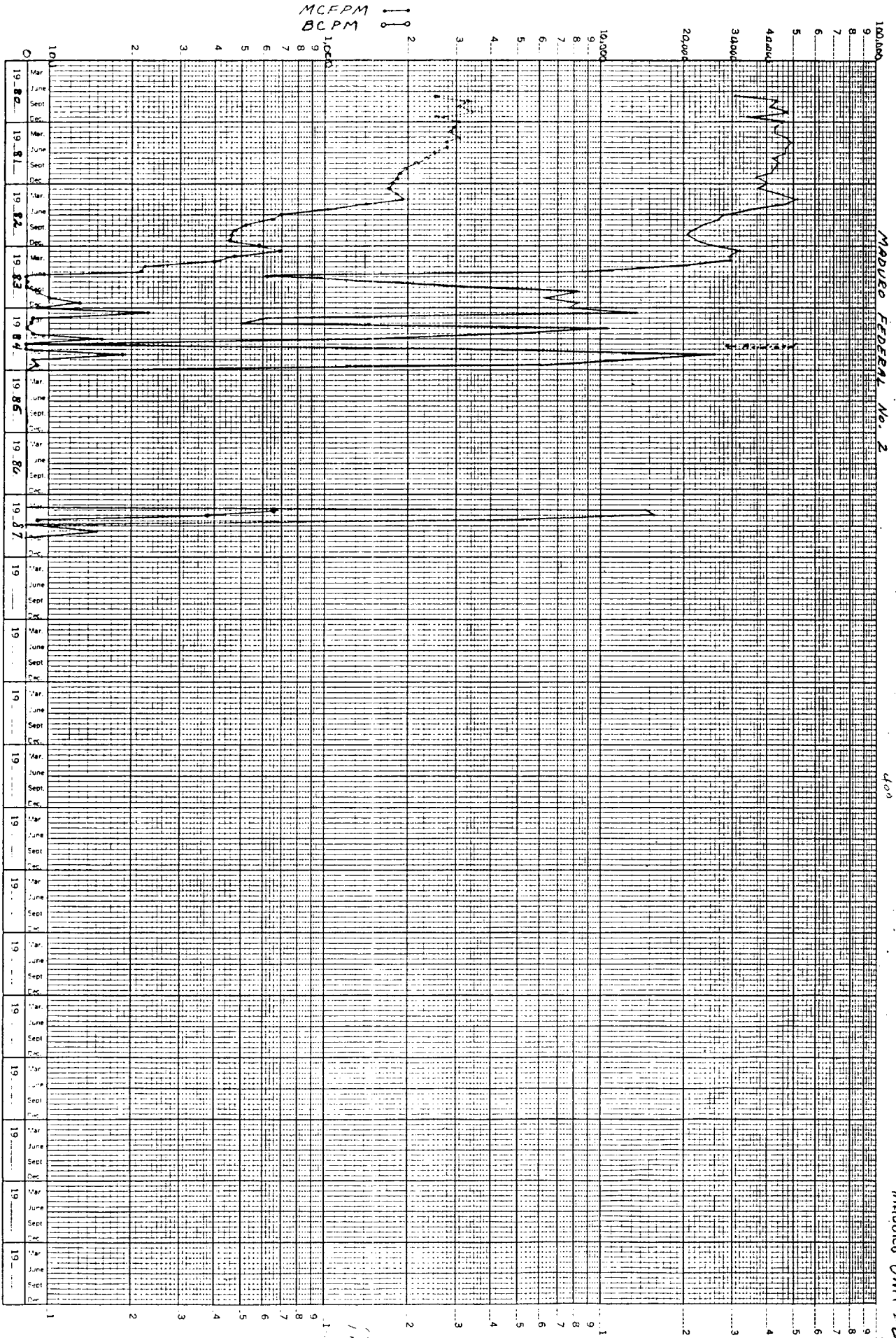
WWS/LHH

MCF/MONTH

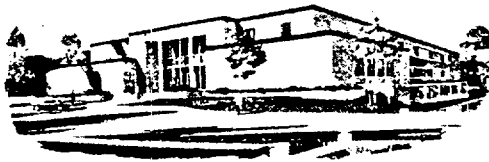


MADURO FEDERAL No. 1

GEN NIOREOW
MADURO UNIT FID #1



State of New Mexico



SLO REF NO. OG-456

W.R. HUMPHRIES
COMMISSIONER

Commissioner of Public Lands

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

September 17, 1987

Unocal Corporation
ATTENTION: Ms. Linda H. Hicks
P. O. Box 671
Midland, Texas 79702

Re: Automatic Elimination
Maduro Unit Area
Lea County, New Mexico

Gentlemen:

This office is in receipt of your letter of September 1, 1987 together with a corrected Exhibits "A" and "B" showing the lands remaining in the Maduro Unit Area, following the automatic elimination as per section 2(e) of the unit agreement.

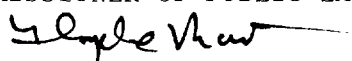
The Commissioner of Public Lands concurs with your description of those lands automatically eliminated from this unit area effective as of August 2, 1984.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY:


FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

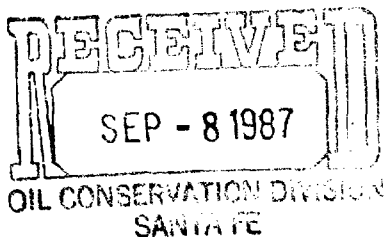
WRH/FOP/pm
encls.

cc: OCD-Santa Fe, New Mexico
BLM-Roswell, New Mexico
Gulram

Unocal Oil & Gas Division
Unocal Corporation
500 North Marienfeld, P.O. Box 671
Midland, Texas 79702
Telephone (915) 682-9731

UNOCAL 76

Midland District



September 1, 1987

Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: William J. LeMay
Director

Maduro Unit Agreement
Case No. 6516
Lea County, New Mexico

Gentlemen:

The State of New Mexico Commissioner of Public Lands recently brought to my attention the fact that Union had not sent you a corrected Exhibit B showing the lands remaining in the Maduro Unit after the Automatic Contraction effective August 2, 1984.

Please find enclosed said Exhibit B. This should complete your file.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "Linda H. Hicks".

Linda H. Hicks
Landman

LHH/s



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

RECEIVED

FEB 24 1986

MIDLAND DISTRICT LAND

IN REPLY
REFER TO:

3180 (065)

Union Oil Company of California
Attn: Wayne W. Strong
500 North Marienfeld
P. O. Box 671
Midland, Texas 79702

RE: Automatic Elimination
Maduro Unit
Lea County, New Mexico

Gentlemen:

Your letter of January 26, 1986, accompanied by revised Exhibits "A" and "B", correctly describes the lands automatically eliminated from the Maduro Unit, Lea County, New Mexico, pursuant to section 2(e) of the Unit Agreement. The lands so eliminated contain 1120.00 acres covering all legal subdivisions, no part of which are included in the Morrow Participating Area. The resultant unit area contains 1440.00 acres.

Federal lands remaining within the contracted unit area are embraced in the following leases:

NM-14794	*NM-27570
NM-38181	*NM-15918
NM-29702	NM-46274

*Indicates lease which covers lands within the contracted unit area as well as lands eliminated from the unit area.

The following Federal leases are entirely eliminated from the unit area:

NM-40276	NM-32591
NM-9562	

The initial Morrow Participating Area was effective August 2, 1979. Since unit drilling operations to defer automatic elimination were not in progress on August 2, 1984, the automatic contraction provision of section 2(e) became effective as of August 2, 1984.

We hereby concur in your description of the lands automatically eliminated from the Maduro Unit Area, effective as of August 2, 1984. You will have satisfactorily complied with the requirement of section 2(e) provided you promptly notify all parties in interest.

Sincerely,

A handwritten signature in cursive script, reading "David L. Mari".

for Francis R. Cherry, Jr
District Manager

EXHIBIT B -- MADURO UNIT AREA, LEA COUNTY, NEW MEXICO, T-19-S, R-33-E as contracted effective 8/2/84

Tract No.	Description of Land	Number of Acres	Ser. No. & Exp. Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
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FEDERAL LAND

1	Sec. 29: W/2SW/4, SW/4NW/4	120	NM-38181 HBP, HBU	U.S.A. (12.5%)	All	Phillips Petroleum Company 50% Wm. G. Ross 25%	Paul F. Kasper, Jr - 1/2 of 1% * Vee Kay Ross - 1/2 of 1% * R.M. Young, Jr., and wife, Adele J. Young - 1/4 of 1% ** Monument Energy Corp. 1.25% **	Union Oil Company of Calif. 31.91489% Chevron U.S.A., Inc. 14.89362% Wm. A. Hudson and Edw. R. Hudson 2.76064% Edward R. Hudson, Jr., Agent and Attorney-in-Fact for B.D. Moore, Jr., et al 0.43085% William G. Ross 25.00000% A.C. Holder 25.00000%
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BELOW 4,000 FEET

Paul F. Kasper, Jr - 1/2 of 1% *** Vee Key Ross - 1/2 of 1% *** R.M. Young, Jr., and wife, Adele J. Young - 1/4 of 1% **** Monument Energy Corp. 3/4 of 1% ****	Union Oil Company of Calif. 31.91489% Chevron U.S.A., Inc. 14.89362% Wm. A. Hudson and Edw. R. Hudson 2.76064% Edward R. Hudson, Jr., Agent and Attorney-in-Fact for B.D. Moore, Jr., et al 0.43085% William G. Ross 25.00000% Mobil Producing Texas & New Mexico 25.00000%
--	--

BELOW 13,760 FEET

Phillips Petroleum Company 50.00000% William G. Ross 25.00000% Mobil Producing Texas & New Mexico 25.00000%

* - 1% ORR burden is out of respective Working Interests listed
** - ORR burdens are out of Working Interest of A.C. Holder
*** - 1% ORR burden is out of respective Working Interests listed
**** - ORR burdens are out of Working Interest of Mobil.

Tract No.	Description of Land	Number of Acres	Ser. No. & Exp. Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
4	Sec. 33: N/2NW/4	80	NM-46274 HBU	U.S.A. All (Schedule B)	Union Oil Company of California	None	Union Oil Company of Calif. 72.28048% Conoco, Inc. 8.62780% Wm. A. Hudson and Edw. R. Hudson 5.92892% Edward R. Hudson, Jr., Agent and Attorney-in-Fact for B.D. Moore, Jr., et al 0.97602% Enron Oil & Gas Company 8.62780% William G. Ross 1.61772% Mobil Producing Texas and New Mexico, Inc. 1.61772% Earl E. Unger .32354%
5	Sec. 29: NE/4, N/2NW/4, SE/4NW/4, NE/4SW/4, N/2SE/4	400	NM-14794 HBU	U.S.A. (12.5%)	Chevron U.S.A., Inc.	Herbert D. Lowell and wife, Reva Raeda Lowell - 5%	Chevron U.S.A., Inc. - All
6	Sec. 28: SW/4	160	NM-15918 HBU	U.S.A (12.5%)	Conoco, Inc.	Arthur E. Meinhart & wife, Marilyn Meinhart 5%	Surface to 13,760 Feet Conoco, Inc. 50.000000% Union Oil Company of Calif. 31.914895% Chevron U.S.A., Inc. 14.893615% Wm. A. Hudson and Edw. R. Hudson 2.760640% Edward R. Hudson, Jr., Agent and Attorney-in-Fact for B.D. Moore, Jr., et al 0.430850%

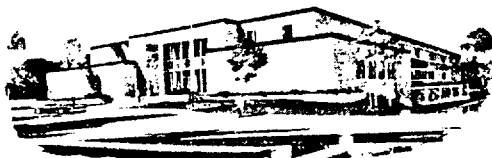
Below 13,760 Feet

Conoco, Inc. 100.000000%

Tract No.	Description of Land	Number of Acres	Ser. No. & Exp. Date of Lease	Basic Royalty and Ownership Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest and Percentage
7	Sec. 28: NW/4	160	NM-27570 HBU	U.S.A. (12.5%)	Union Oil Company of California	Ben Comroe and wife, Eleanor W. Comroe-4% Doreen Smith - 1%	Union Oil Company of Calif.- 100.00000%
8	Sec. 29: S/2SE/4, SE/4SW/4	120	NM-29702 HBU	U.S.A. (Schedule B)	Union Oil Company of California	None	Union Oil Company of Calif. 100.00000%
NEW MEXICO STATE LAND							
10	Sec. 32: NE/4	160	L-4397-1 HBU	State of New Mexico (12.5%)	Union Oil Company of California	Roy G. Barton, Jr. & wife, Norma J. Barton 5%	Union Oil Company of Calif. 100.00000%
11	Sec. 33: S/2NW/4	80	LG-3173 HBU	State of New Mexico (12.5%)	Union Oil Company of California	None	Union Oil Company of Calif. 100.00000%
12	Sec. 32: NW/4	160	LG-3230 HBU	State of New Mexico (12.5%)	Enron Oil & Gas Company	None	Enron Oil & Gas Company 100.00000%
6 Federal Tracts		1040.00 Acres	72.22222% of contracted Unit				
3 New Mexico State Tracts		400.00 Acres	27.77778% of contracted Unit				
TOTAL 9 Tracts		1440.00 Acres in contracted Unit.					

State of New Mexico

#6516



SLO REF NO. OG-227

W.R. HUMPHRIES
COMMISSIONER

Commissioner of Public Lands

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

June 25, 1987

Unocal Oil and Gas Division
Attention: Ms. Linda Hicks
P. O. Box 671
Midland, Texas 79702

Re: Maduro Unit
1987 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved your 1987 Plan of Development for the Maduro Unit Area, Lea County, New Mexico. Please submit a Revised Exhibit "B" following the Automatic Elimination of this unit.

Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY:

Floyd O. Prando
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

WRH/FOP/pm
encls.

cc: OCD-Santa Fe, New Mexico

BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION



March 4, 1987

GAPREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE NEW MEX CO 87501
(505) 927-5800

6516
~~8138~~

Unocal
P. O. Box 671
Midland, Texas 79702

Attention: Linda H. Hicks

Re: 1987 Plan of Development
Maduro Unit
Lea County, New Mexico
Maduro Prospect (8138)

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

A handwritten signature in dark ink, appearing to read "Roy E. Johnson".

ROY E. JOHNSON,
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque

Unocal Oil & Gas Division
Unocal Corporation
500 North Marienfeld, P.O. Box 671
Midland, Texas 79702
Telephone (915) 682-9731



February 25, 1987

Midland District

Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay

1987 Plan of Development
Maduro Unit
Lea County, New Mexico
Maduro Prospect (8138)

Gentlemen:

Please find enclosed two (2) copies of Union's 1987 Plan of Development and Operations for the Maduro Unit. We respectfully request your approval of same.

Yours truly,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script that reads "Linda H. Hicks".

Linda H. Hicks
Landman

LHH:gb

Enc1s.

1987 PLAN OF DEVELOPMENT AND OPERATION
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

To: Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay
Director

Union Oil Company of California, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979 (No. 14-08-0001-18028) respectfully submits for approval this 1987 Plan of Development and Operation for the period ending December 31, 1987.

Summary of 1986 Operations:

No new wells were drilled in 1986. Well No. 1, a Lower and Middle Morrow producer, produced 62.8 MMCF and 363 BC in 1986. It is currently producing 1 BC + 1 BW + 173 MCFPD. Well No. 2 is an idle Lower Morrow producer.

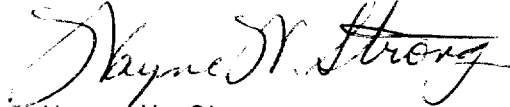
Plan of Development and Operation for 1987:

Union plans to abandon the Lower Morrow in Well No. 2 and recomplete in the Middle Morrow.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Sincerely yours,

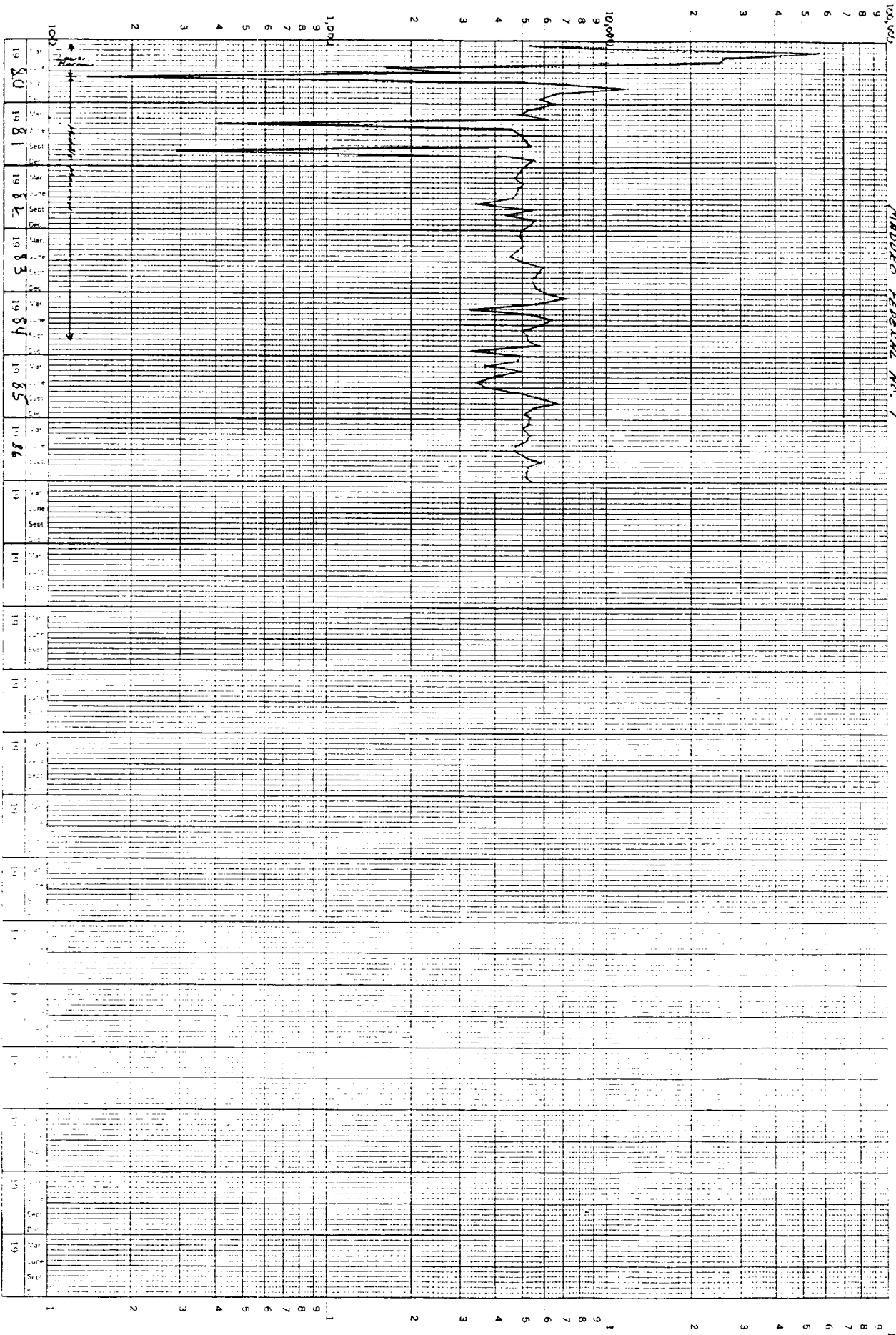
UNION OIL COMPANY OF CALIFORNIA



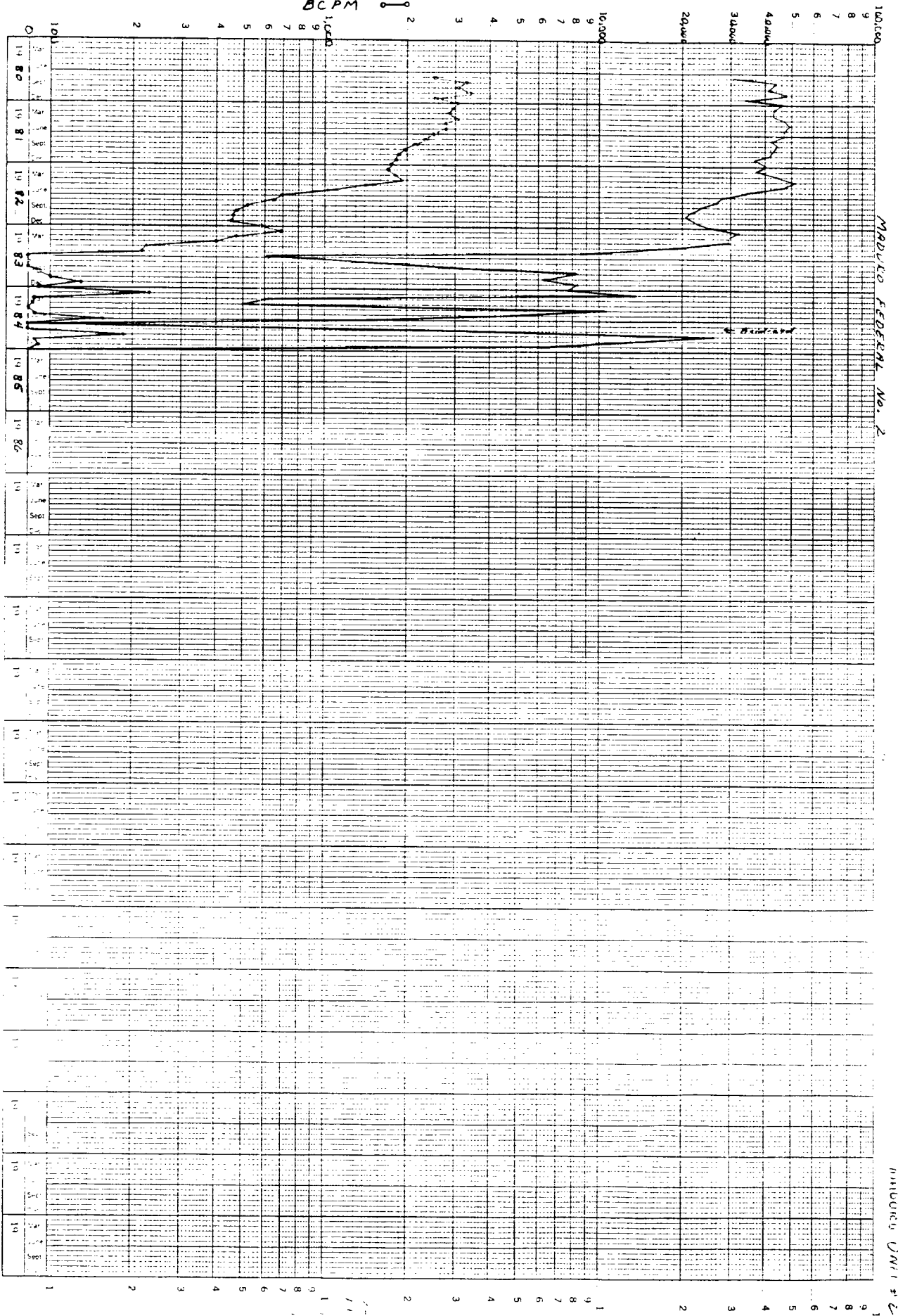
Wayne W. Strong
District Land Manager

Submitted this 25 day of February, 1987.

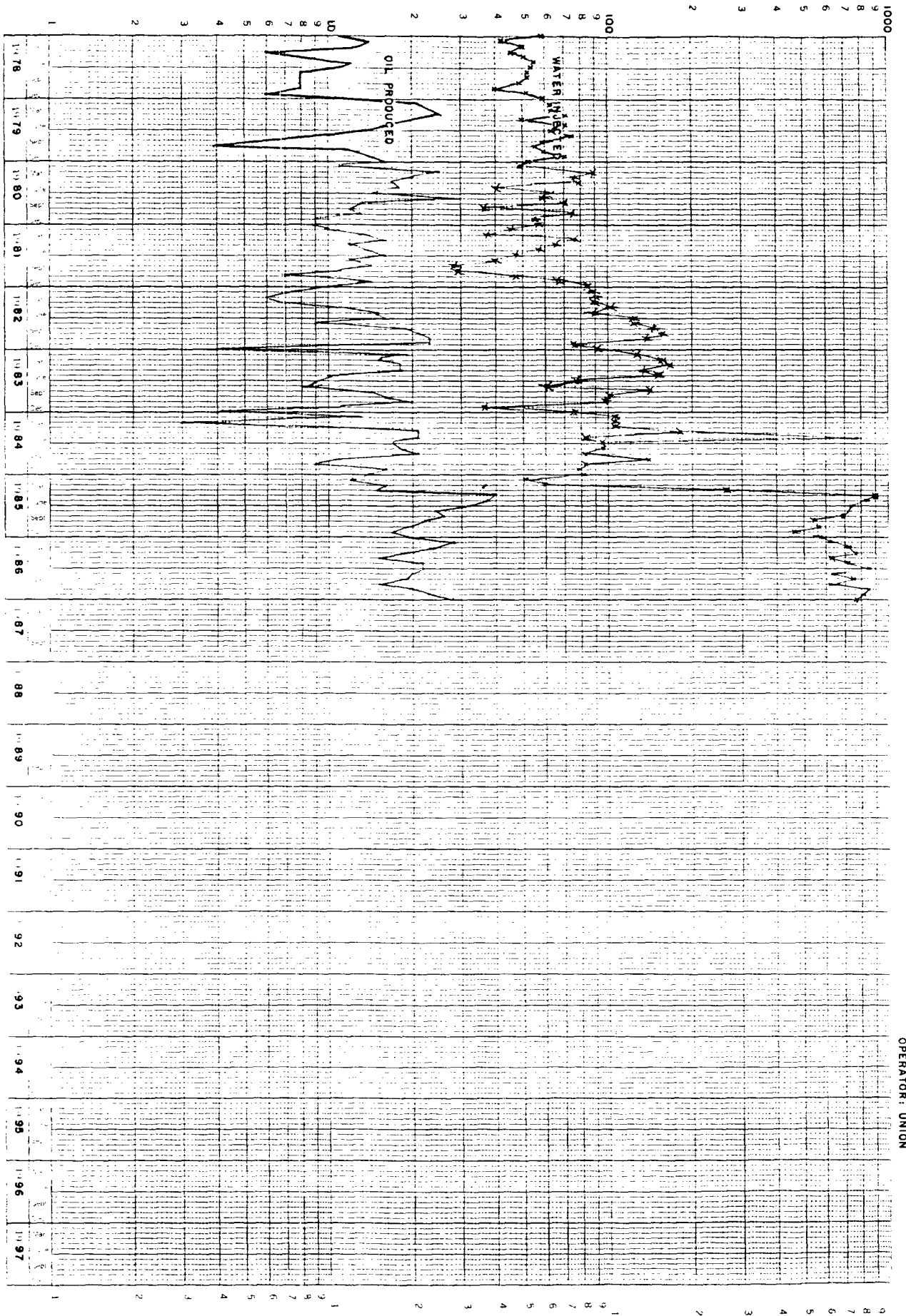
MCF/MONTH



MCFPM 1
BCPM 0



PRODUCTION & INJECTION RATE B/D



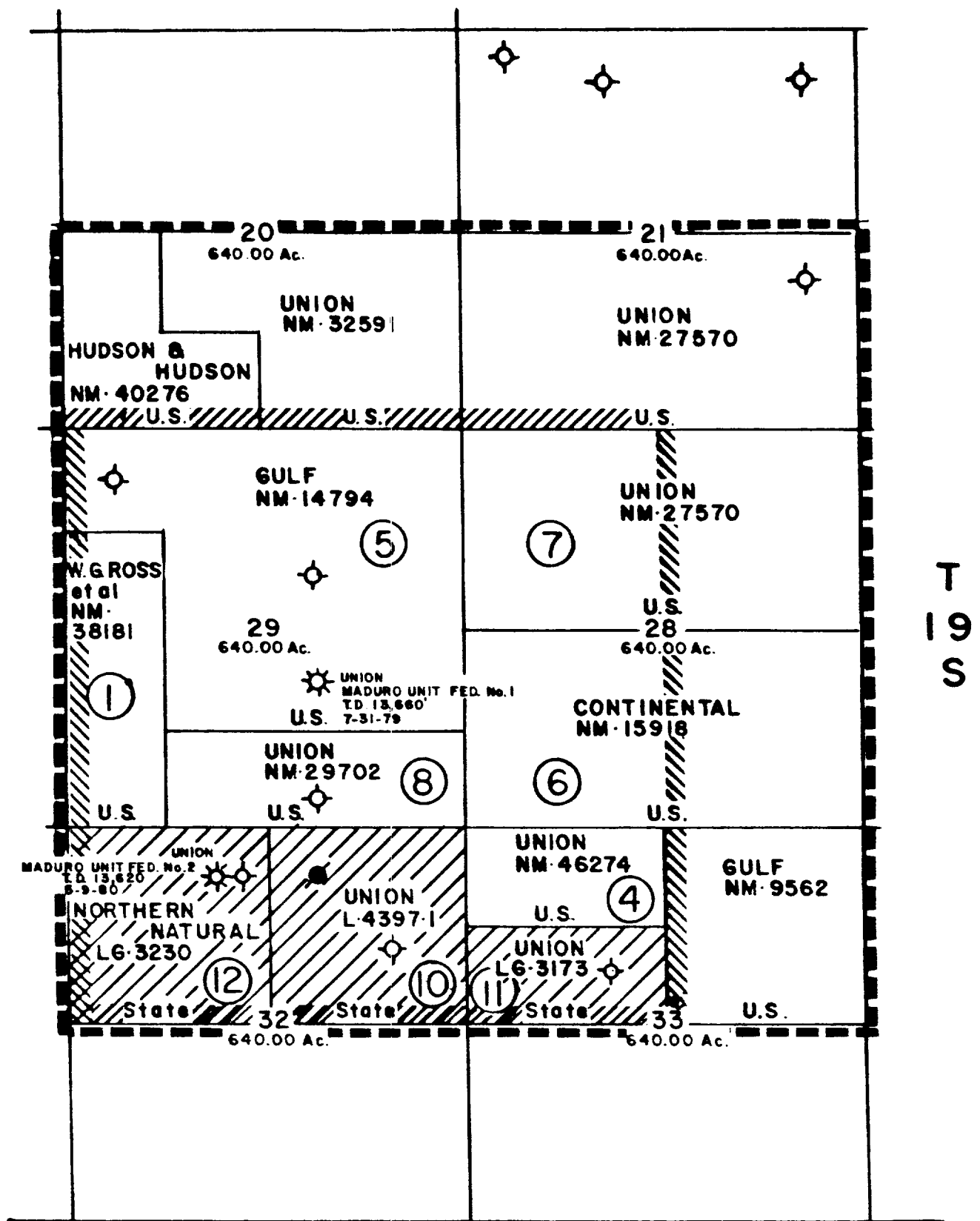





EXHIBIT "A"-(REVISED) MADURO UNIT


LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



① TRACT NUMBER - EXHIBIT "B"

	FEDERAL	1040.00 Ac.	72.22222 %
	STATE	400.00 Ac.	27.77778 %
		1440.00 Ac.	100.00000 %

 ORIGINAL UNIT BOUNDARY

 REVISED UNIT BOUNDARY & PARTICIPATING AREA

001

Unit Name MADURO UNIT (EXPLORATORY)
Operator Union Oil Company of California
County Lea

DATE	OCC CASE NO.	6516	EFFECTIVE	TOTAL	ACREAGE	STATE	FEDERAL	INDIAN-FEE	SEGREGATION	TERM
APPROVED	OCC ORDER NO.	R-5976	DATE						CLAUSE	
Commissioner:	Commission:		5-3-79	2,560.00	400.00	2,160.00	-0-	Yes	5 yrs.	
5-14-79	4-9-79									

LANDS REMAINING AFTER AUTOMATIC ELIMINATION: 1,440.00 1,040.00

ORIGINAL

UNIT AREA

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM
Sections 20 and 21: S/2
Sections 28 and 29 A11
Sections 32 and 33: N/2

AUTOMATIC ELIMINATION OCCURED AUGUST 2, 1987

LANDS REMAINING IN UNIT AREA:
TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM
Section 28: W/2
Section 29: A11
Section 32: N/2
Section 33: NW/4

Unit Name

MADURO UNIT (EXPLORATORY)

Operator

Union Oil Company of California

County

Lea

STATE TRACT NO.	LEASE NO.	INSTI- TUTION	SEC.	TWP.	RGE.	SUBSECTION	RATIFIED		ACREAGE	
							DATE	ACRES	RATIFIED	NOT LESSEE
10	L-4397-1	C.S.	32	19S	33E	NE/4	3-20-79	160.00		Union Oil Company of California
11.	LG-3173	C.S.	33	19S	33E	S/2NW/4	3-20-79	80.00		Union Oil Company of California
12.	LG-3230	C.S.	32	19S	33E	NW/4	4-11-79	160.00		Northern Natural Gas Company

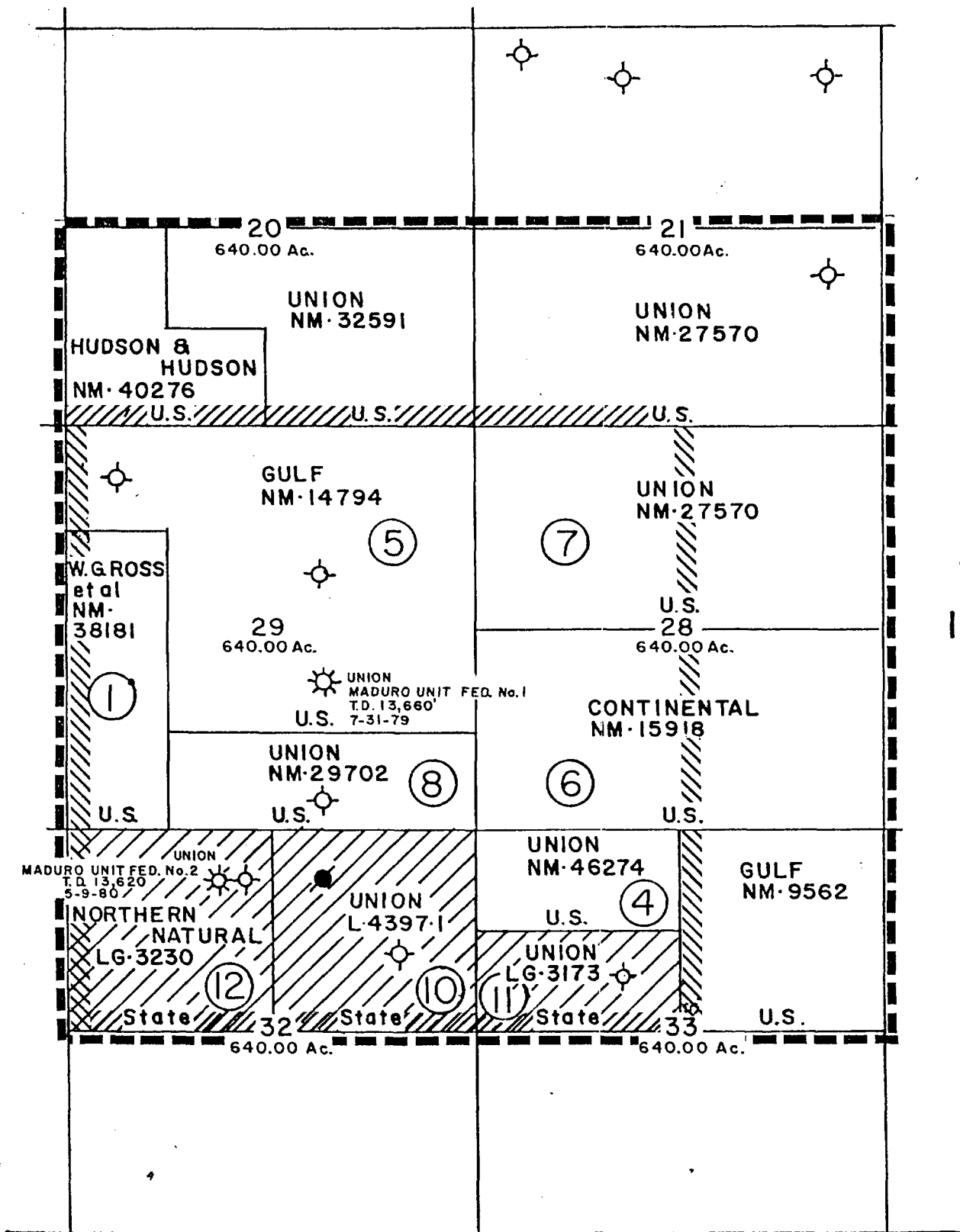
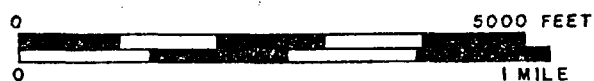

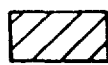
T
19
S

EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



① TRACT NUMBER - EXHIBIT "B"

	FEDERAL	1040.00 Ac.	72.22222 %
	STATE	400.00 Ac.	27.77778 %
		1440.00 Ac.	100.00000 %



ORIGINAL UNIT BOUNDARY



REVISED UNIT BOUNDARY & PARTICIPATING AREA

Please note that Exhibit B is not included in this packet. I wanted to go ahead and get the elimination of lands in to you without further delay as it is already much overdue. I noticed some mistakes in the Exhibit B that I had failed to discover and will send you in an updated version in the latter part of March. I will be out of the office until then.

Thank you for your patience.

Linda H. Hicks

Linda H. Hicks
Landman

#6516

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



#6516

January 26, 1986

Wayne W. Strong
District Land Manager
Midland District

Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501
ATTN: R.L. Stamets

Gentlemen:

Maduro Unit Agreement
Case No. 6516
Lea County, New Mexico
Automatic Contraction
to Morrow Participating
Area - Effective August
2, 1984

Pursuant to Subsection 2(e) of the Maduro Unit Agreement, Union Oil Company of California as Unit Operator submits for your approval, the following description of lands eliminated from said Agreement as a result of the Automatic Contraction of the unit, effective as of August 2, 1984:

<u>Township 19 South, Range 33 East</u>	<u>Acres</u>	
Section 20: S/2	320.00	Federal
Section 21: S/2	320.00	Federal
Section 28: E/2	320.00	Federal
Section 33: NE/4	160.00	Federal
	<u>1120.00</u>	

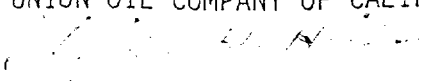
Attached and also submitted for your approval are revised Exhibits "A" and "B" for the Maduro Unit, as contracted.

Applicant respectfully requests approval of the elimination, effective as of August 2, 1984, of the above described lands from the Maduro Unit Agreement and approval of the attached revised Exhibits "A" and "B" for the Maduro Unit as contracted.

Upon receipt of such approval, we shall send appropriate notification of the foregoing to all other parties in interest as required by Subsection 2(e) of the Unit Agreement.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA


Linda H. Hicks
Landman

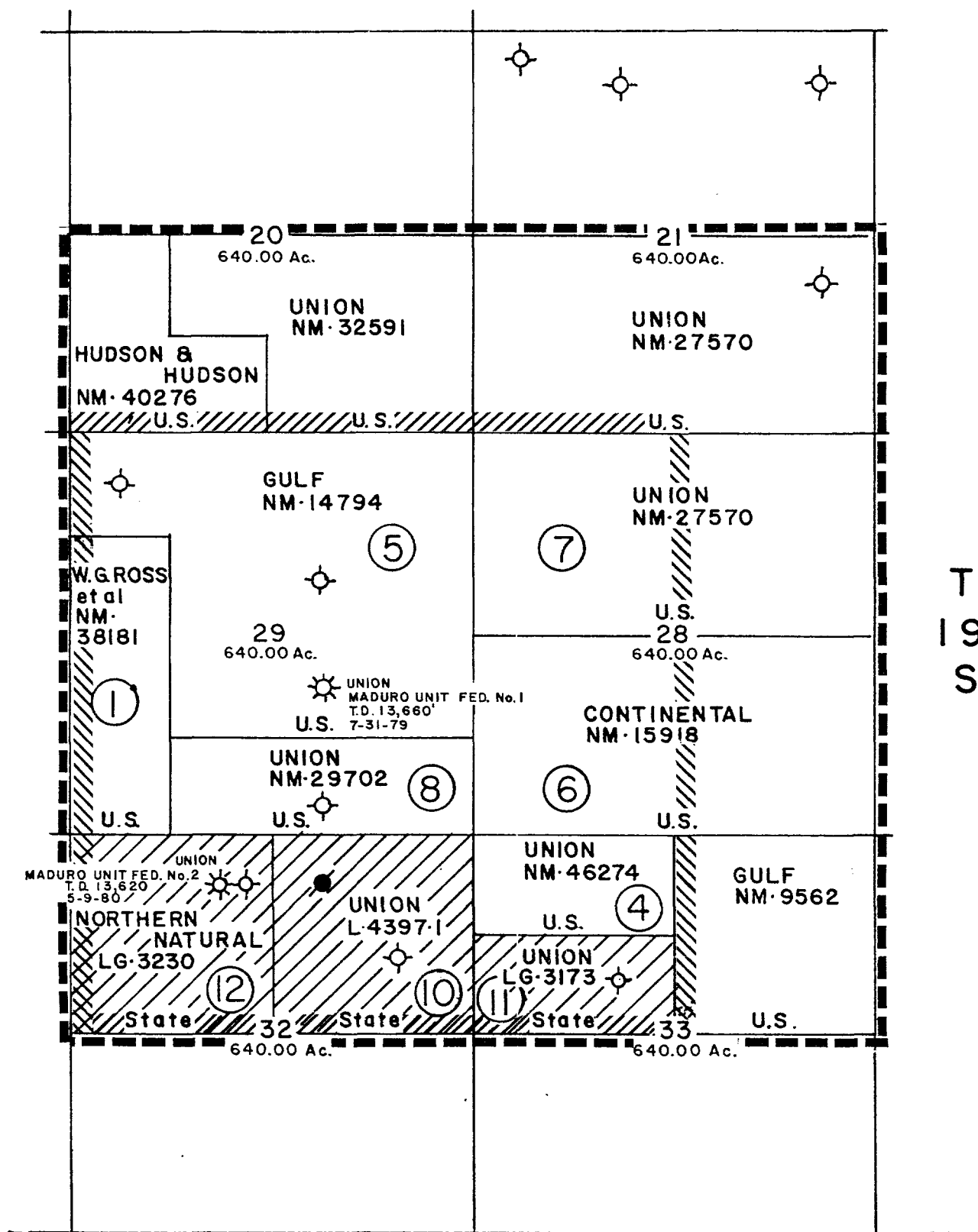
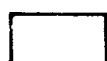





EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



① TRACT NUMBER - EXHIBIT "B"

	FEDERAL	1040.00 Ac.	72.22222 %
	STATE	400.00 Ac.	27.77778 %
		1440.00 Ac.	100.00000 %
	ORIGINAL UNIT BOUNDARY		
	REVISED UNIT BOUNDARY & PARTICIPATING AREA		

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



January 26, 1986

Wayne W. Strong
District Land Manager
Midland District

Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501
ATTN: R.L. Stamets

Gentlemen:

Maduro Unit Agreement
Case No. 6516
Lea County, New Mexico
Automatic Contraction
to Morrow Participating
Area - Effective August
2, 1984

Pursuant to Subsection 2(e) of the Maduro Unit Agreement, Union Oil Company of California as Unit Operator submits for your approval, the following description of lands eliminated from said Agreement as a result of the Automatic Contraction of the unit, effective as of August 2, 1984:

<u>Township 19 South, Range 33 East</u>	<u>Acres</u>	
Section 20: S/2	320.00	Federal
Section 21: S/2	320.00	Federal
Section 28: E/2	320.00	Federal
Section 33: NE/4	160.00	Federal
	<u>1120.00</u>	

Attached and also submitted for your approval are revised Exhibits "A" and "B" for the Maduro Unit, as contracted.

Applicant respectfully requests approval of the elimination, effective as of August 2, 1984, of the above described lands from the Maduro Unit Agreement and approval of the attached revised Exhibits "A" and "B" for the Maduro Unit as contracted.

Upon receipt of such approval, we shall send appropriate notification of the foregoing to all other parties in interest as required by Subsection 2(e) of the Unit Agreement.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "Linda H. Hicks".

Linda H. Hicks
Landman

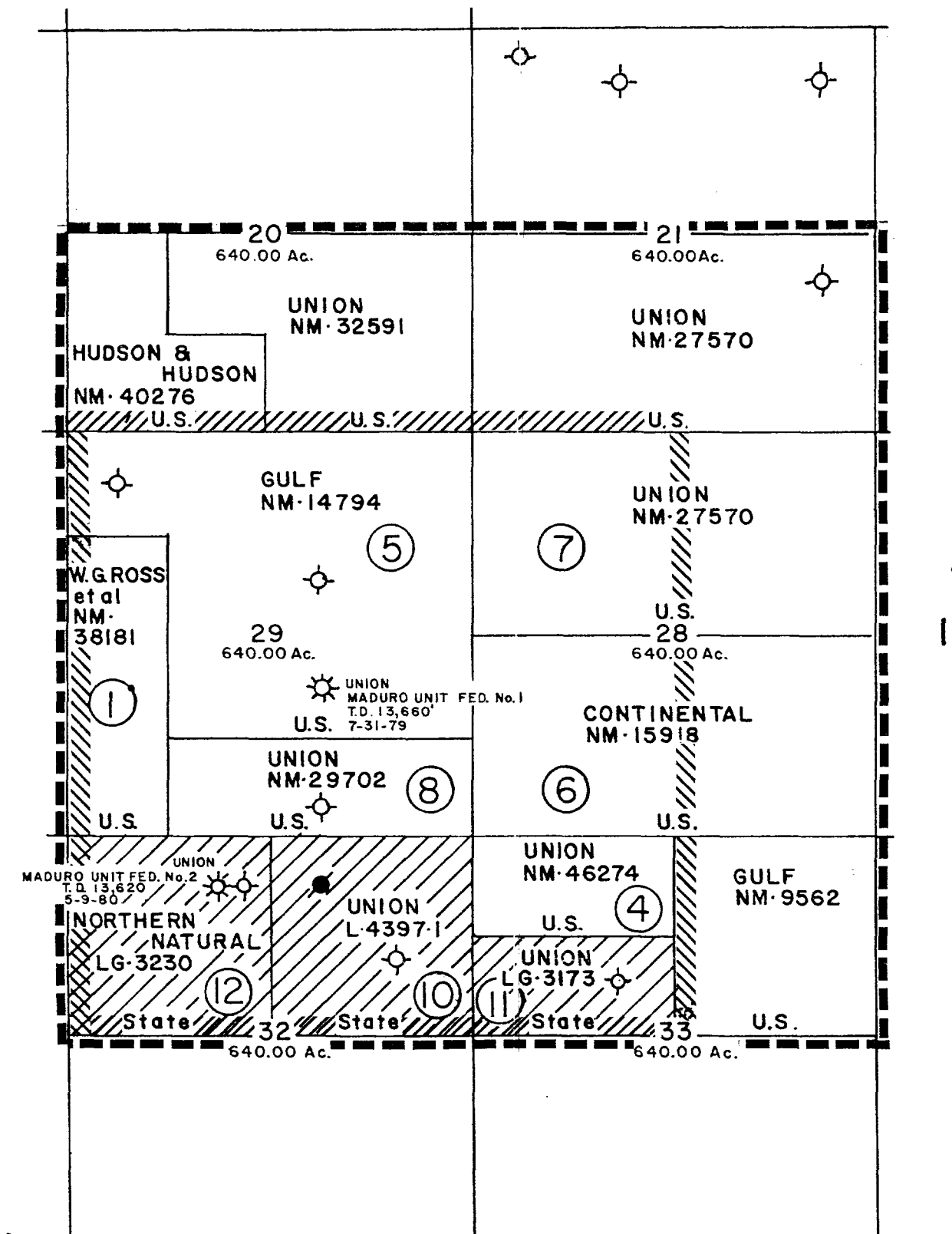


EXHIBIT "A"-(REVISED) MADURO UNIT

LEA COUNTY, NEW MEXICO
(AS CONTRACTED EFFECTIVE AUGUST 2, 1984)



① TRACT NUMBER - EXHIBIT "B"

	FEDERAL	1040.00 Ac.	72.22222 %
	STATE	400.00 Ac.	27.77778 %
		1440.00 Ac.	100.00000 %



ORIGINAL UNIT BOUNDARY



REVISED UNIT BOUNDARY & PARTICIPATING AREA



United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT

Box 1397, Roswell, New Mexico - 88201

MAR 28 1986

14-08-0001-18028
3180 (065)

Union Oil Company of California
Attention: Mr. Wayne W. Strong
500 North Marientfeld
Midland, Texas 79701

MAR 25 1986

Re: 1986 Plan of Development
Maduro Unit
Lea County, New Mexico

Gentlemen:

We are in receipt of your letter dated February 28, 1986 which describes your 1986 Plan of Development for the Maduro Unit, Lea County, New Mexico.

Such plan proposes no further drilling operations and recompletion of the Maduro Unit No. 2 from the Lower Morrow to the Middle Morrow.

This plan is approved effective for the period January 1, 1986 through January 1, 1987 and is subject to like approval by the Commissioner of Public Lands and the New Mexico Oil Conservation Division.

Sincerely, .

Orig. Sgd. David L. Mari

Francis R. Cherry, Jr.
District Manager

FOR

cc:

✓ Commissioner of Public Lands, Santa Fe

State of New Mexico



JIM BACA
COMMISSIONER



Commissioner of Public Lands

March 11, 1986

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery Uses:
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

Re: 1986 Plan of Development
Maduro Unit
Lea County, New Mexico

ATTENTION: Mr. Larry Murphy

Gentlemen:

The Commissioner of Public Lands has this date approved your 1986 Plan of Development for the Maduro Unit Area, Lea County, New Mexico. Such plan calls for no new wells to be drilled during 1986, but due to good performance of the Middle Morrow Recompletions in nearby offsets, Union plans to recomplete the Well No. 2 in 1986. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

In future Plans of Development please submit an up-to-date map of the unit area showing all wells and their zone(s) of completion. In addition, please also furnish a summary for each well by month for the last twelve month period.

If we may be of further help please do not hesitate to call on us. Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Frando*
FLOYD O. FRANDO, Director
Oil and Gas Division
AC 505/827-5744

JB/FOP/pm
encls.

cc: OCD-Santa Fe, New Mexico
BLM-Albuquerque, New Mexico Attn: Fluids Branch
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez



TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

March 6, 1986

50 YEARS



1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Union Oil and Gas
P. O. Box 671
Midland, Texas 79702

Attention: Larry Murphy

Re: 1986 Plan of Development
Maduro Unit, Lea County
Maduro Prospect 8138

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON,
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque
OCD District Office - Hobbs

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Mariefeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



Wayne W. Strong
District Land Manager
Midland District

February 28, 1986

Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501

ATTN: Dick Stamets, Director

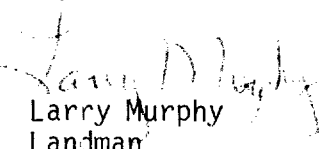
1986 Plan of Development
Maduro Unit
Lea County, New Mexico
Maduro Prospect (8138)

Dear Mr. Stamets:

Please find enclosed two (2) copies of Union's 1986 Plan of Development and Operation for the Maduro Unit. We respectfully request your approval of same.

Yours truly,

UNION OIL COMPANY OF CALIFORNIA


Larry Murphy
Landman

LM
Encls.

1986 Plan of Development and Operation
Maduro Unit Area
Lea County, New Mexico

TO: Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
ATTN: Dick Stamets, Director

Union Oil Company of California, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979(No. 14-08-0001-18028), respectfully submits for approval this 1986 Plan of Development and Operation for the period ending December 31, 1986.

Summary of 1985 Operations:

No new wells were drilled within the Unit in 1985. Well No. 1, perforated in the Lower and Middle Morrow zones, produced 57 MMCF and 262 BC during 1985 and is currently producing at a rate of 157 MCFPD and 1 BCPD. Well No. 2, a Lower Morrow producer, died in December 1984. The Lower Morrow depleted (Cumulative Production 1,412,321 MCF & 61,608 BC), and a Middle Morrow Completion is to be proposed.

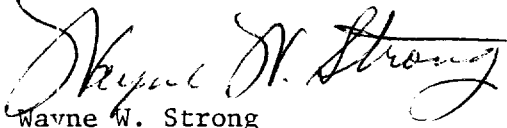
Plan of Development and Operations for 1986:

Union has no plans to drill any new wells in the Unit in 1986. Due to good performance of the Middle Morrow Recompletions in nearby offsets, Union plans to recomplete Well No. 2 in 1986.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA


Wayne W. Strong
District Land Manager

WWS:bh

Submitted this 3rd day of March, 1986.

1986 Plan of Development and Operation
Maduro Unit Area
Lea County, New Mexico

TO: Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
ATTN: Dick Stamets, Director

Union Oil Company of California, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979(No. 14-08-0001-18028), respectfully submits for approval this 1986 Plan of Development and Operation for the period ending December 31, 1986.

Summary of 1985 Operations:

No new wells were drilled within the Unit in 1985. Well No. 1, perforated in the Lower and Middle Morrow zones, produced 57 MMCF and 262 BC during 1985 and is currently producing at a rate of 157 MCFPD and 1 BCPD. Well No. 2, a Lower Morrow producer, died in December 1984. The Lower Morrow depleted (Cumulative Production 1,412,321 MCF & 61,608 BC), and a Middle Morrow Completion is to be proposed.

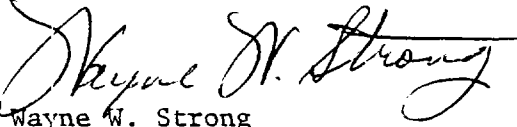
Plan of Development and Operations for 1986:

Union has no plans to drill any new wells in the Unit in 1986. Due to good performance of the Middle Morrow Recompletions in nearby offsets, Union plans to recomplete Well No. 2 in 1986.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA


Wayne W. Strong
District Land Manager

WWS:bh

Submitted this 3rd day of March, 1986.

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731

#6515



OK
3-8-85

Robert V. Lockhart
District Land Manager
Midland District

March 1, 1985

Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. Dick Stamets, Director

Gentlemen:

1985 Plan of Development
Maduro Unit
Case No. 6515
Maduro Prospect (8138)
Lea County, New Mexico

Enclosed for your review please find two (2) copies of Union Oil Company of California's "1985 Plan of Development and Operation for the Maduro Unit Area."

Union, as Operator, respectfully requests your consideration and approval of this plan. Should you have any additional questions, please contact the undersigned.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "Linda H. Hicks".

Linda H. Hicks
Landman

LHH/s



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
P.O. Box 1397
Roswell, New Mexico 88201

IN REPLY
REFER TO:

14-08-0001-18028 (060)

March 15, 1985

#6514

Union Oil Company of California
Attention: Robert V. Lockhart
500 North Marienfeld
Midland, Texas 79702

RE: 1985 Plan of Development
Maduro Unit
Lea County, New Mexico

Gentlemen:

We are in receipt of your letter dated March 1, 1985 which describes your 1985 Plan of Development for the Maduro Unit, Lea County, New Mexico.

Such plan proposing not to drill any new wells and evaluation for a possible recompletion in the Middle Morrow Formation of the Maduro Unit No. 2 Well, is approved effective as of January 1, 1985.

Sincerely yours,

s/T. Kreager

Acting District Manager

cc:

Commissioner of Public Lands, Santa Fe

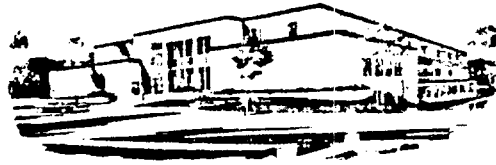
✓ NMOCD, Santa Fe

NMSO, Micrographics (943B)

State of New Mexico



JIM BACA
COMMISSIONER



Commissioner of Public Lands

April 8, 1985

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery Uses
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: 1985 Plan of Development
Maduro Unit
Lea County, New Mexico

ATTENTION: Ms. Linda H. Hicks

Gentlemen :

The Commissioner of Public Lands has this date approved your 1985 Plan of Development for the Maduro Unit, Lea County, New Mexico. Such Plan advises that you have no plans to drill any new wells during 1985, and evaluate the Maduro Unit Well No. 2 for a possible recompletion of the Middle Morrow formation. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Roy W Graham Jr.*
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505/827-5744

JB/RDG/pm
encls.

cc: OCD-Santa Fe, New Mexico ✓
BLM-Albuquerque, New Mexico Attn: Fluids Branch
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

March 8, 1985

Union Oil Company of
California
P.O. Box 671
Midland, Texas 79702

Attention: Linda H. Hicks

Re: 1985 Plan of Development
Maduro Unit
Case No. 6515
Maduro Prospect (8138)
Lea County, NM

Dear Ms. Hicks:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Johnson".

ROY E. JOHNSON
Senior Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque
OCD District Office - Hobbs

1985 PLAN OF DEVELOPMENT AND OPERATION FOR

MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

To: Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. Dick Stamets, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1985 Plan of Development and Operation for the period ending December 31, 1985.

SUMMARY OF 1984 OPERATIONS

No new wells were drilled within the Unit in 1984. Well No. 1, perforated in the Lower and Middle Morrow zones, produced 63,160 MCF + 50 BC during 1984 and is currently producing at a rate of 158 MCFPD + 0 BCPD. Well No. 2, a Lower Morrow Producer, produced 79,837 MCF + 732 BC in 1984, but died in late November. The Lower Morrow in No. 2 appears depleted (cumulative production is 1,412,321 MCF + 61,608 BC), and a Middle Morrow completion is being evaluated.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1985

Union has no plans to drill any new wells in the Unit in 1985. Due to good performance of Middle Morrow recompletions in nearby offsets, Union is currently evaluating a recompletion of Well No. 2 for 1985.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of March, 1985.

UNION OIL COMPANY OF CALIFORNIA

By: 

1985 PLAN OF DEVELOPMENT AND OPERATION FOR

MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

To: Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. Dick Stamets, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1985 Plan of Development and Operation for the period ending December 31, 1985.

SUMMARY OF 1984 OPERATIONS

No new wells were drilled within the Unit in 1984. Well No. 1, perforated in the Lower and Middle Morrow zones, produced 63,160 MCF + 50 BC during 1984 and is currently producing at a rate of 158 MCFPD + 0 BCPD. Well No. 2, a Lower Morrow Producer, produced 79,837 MCF + 732 BC in 1984, but died in late November. The Lower Morrow in No. 2 appears depleted (cumulative production is 1,412,321 MCF + 61,608 BC), and a Middle Morrow completion is being evaluated.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1985

Union has no plans to drill any new wells in the Unit in 1985. Due to good performance of Middle Morrow recompletions in nearby offsets, Union is currently evaluating a recompletion of Well No. 2 for 1985.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 1st day of March, 1985.

UNION OIL COMPANY OF CALIFORNIA

By: 

State of New Mexico



JIM BACA
COMMISSIONER

Commissioner of Public Lands

March 5, 1985

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery Use:
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

Re: Automatic Elimination for the
Maduro Unit Agreement,
Lea County, New Mexico

ATTENTION: Mr. Robert V. Lockhart

Gentlemen:

Please be advised that as per the terms of the Maduro Unit Agreement, the automatic elimination became effective as of August 2, 1984, being five years from the effective date of the first initial participating area which was August 2, 1979.

Section 2 (e) provides, among other things that "All legal subdivisions of lands, no parts of which are entitled to be in a participating area on or before the fifth anniversary of the effective date of the first initial participating area established under this Unit Agreement, shall be eliminated automatically from this agreement, effective as of said fifth anniversary," being August 2, 1984. This Section also provides that a description of the lands eliminated should be furnished to the satisfaction of the Supervisor and the Commissioner within 90 days after the automatic elimination.

Please submit a description of the lands automatically eliminated from the Maduro Unit together with lands remaining in the unit as described by revised Exhibits "A" and "B" as provided in the unit agreement.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505/827-5744

JB/RDG/pm
encls.

cc: OCD-Santa Fe, New Mexico
BLM-Albuquerque, New Mexico Attn: Fluids Branch
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

#6516

14-08-0001-18025

December 12, 1984

Union Oil Company of California
Attn: Robert V. Lockhart
500 North Marienfeld
P.O. Box 671
Midland, TX 79702

RE: Automatic Elimination for the
Maduro Unit Agreement, Lea
County, New Mexico

Gentlemen:

We wish to advise that automatic elimination for the Maduro Unit Agreement, Lea County, New Mexico has become effective as of August 2, 1984, or five years from the effective date of the first initial participating area which was August 2, 1979.

Section 2(e) of the unit agreement provides that a description of the lands eliminated should be furnished to the satisfaction of the District Manager and Commissioner of Public Lands within 90 days after the automatic elimination date.

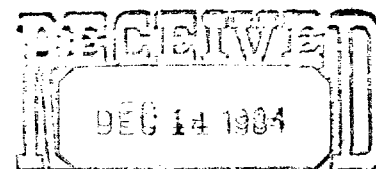
As unit operator, you are requested to file a description of the lands automatically eliminated from the Maduro Unit Agreement together with lands remaining in the unit as described by revised Exhibits "A" and "B" as provided by Section 2(e) of the unit agreement.

Sincerely yours,

Orig. Sgd. Earl R. Cunningham

District Manager

cc: Commissioner of Public Lands, Santa Fe
NMSO, Micrographics (943B)
CRA
Unit File
BABYAK/dlf/12-11-84/1053M



OIL CONSERVATION DIVISION
SANTA FE



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

#6516

IN REPLY
REFER TO:

Maduro Unit

March 29, 1984

Union Oil Company of California
Attention: Robert V. Lockhart
P.O. Box 671
Midland, TX 79702

Gentlemen:

Enclosed are two approved copies of your 1984 Plan of Development and Operation, for the Maduro Unit Area, Lea County, New Mexico, covering the period beginning January 1, 1984 and ending December 31, 1984. This plan, which calls for drilling no additional wells and monitoring the performance of unit wells No. 1 and 2 for possible recompletion or additional stimulation during 1984, was approved this date subject to like approval by the New Mexico Commissioner of Public Lands, and the New Mexico Oil Conservation Division.

Sincerely yours,

/s/ Richard Bualin

Associate District Manager

Enclosures (2)

cc: ✓ NMOCD, Santa Fe

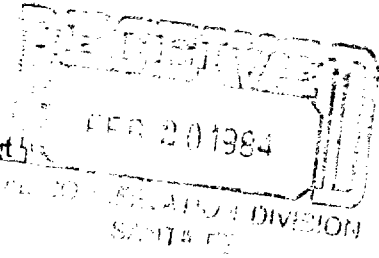
Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



6516

Robert V. Lockhart
District Land Manager
Mid and District



February 15, 1984

Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Director

Gentlemen:

1984 Plan of Development
Maduro Unit
Case No. 6516
Maduro Prospect (8138)
Lea County, New Mexico

Enclosed for your review please find Two (2) copies of Union Oil Company of California's "1984 Plan of Development and Operation for the Maduro Unit Area."

Union, as Operator, respectfully requests your consideration and approval of this plan. Should you have any additional questions, please contact the undersigned.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "Robert V. Lockhart".

Robert V. Lockhart
District Land Manager

LHH:RVL:11j

Enclosures

Certified: P 220 602 931

1984 PLAN OF DEVELOPMENT AND OPERATION
FOR
MADURO UNIT AREA
LEA COUNTY, MEW MEXICO

TO: Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 Cf the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1984 Plan of Development and Operation for the period ending December 31, 1984.

SUMMARY OF 1983 OPERATIONS

No new wells were drilled in 1983. Maduro Unit Well No. 1, perforated in the Lower and Middle Morrow zones, is currently producing 182 MCFPD plus 1 BCPD. Well No. 2, a Lower Morrow producer, currently produces 275 MCFPD plus 2 BCPD.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1984

Union has no plans to drill any new wells in the Unit during 1984. The performance of Well No. 1 and Well No. 2 will be monitored for possible recompletion or additional stimulation treatments. The apparent successful recompletion of the Laguna Unit Well No. 2 locted in SW/4 Section 26-19S-33E in May 1983 from the Lower Morrow to the Middle Morrow has indicated potential for a similar recompletion of Maduro Unit Well No. 2 when its Lower Morrow reserves are depleted.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 15 day of February, 1984.

UNICN OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart
Robert V. Lockhart
District Land Manager

1984 PLAN OF DEVELOPMENT AND OPERATION
FOR
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 Of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1984 Plan of Development and Operation for the period ending December 31, 1984.

SUMMARY OF 1983 OPERATIONS

No new wells were drilled in 1983. Maduro Unit Well No. 1, perforated in the Lower and Middle Morrow zones, is currently producing 182 MCFPD plus 1 BCPD. Well No. 2, a Lower Morrow producer, currently produces 275 MCFPD plus 2 BCPD.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1984

Union has no plans to drill any new wells in the Unit during 1984. The performance of Well No. 1 and Well No. 2 will be monitored for possible recompletion or additional stimulation treatments. The apparent successful recompletion of the Laguna Unit Well No. 2 located in SW/4 Section 26-19S-33E in May 1983 from the Lower Morrow to the Middle Morrow has indicated potential for a similar recompletion of Maduro Unit Well No. 2 when its Lower Morrow reserves are depleted.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 15 day of February, 1984.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart
Robert V. Lockhart
District Land Manager



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

February 20, 1984

Union Oil Company of California
P.O. Box 671
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: 1984 Plan of Development
Maduro Unit
Case No. 6516
Maduro Prospect (8138)
Lea County, NM

Dear Mr. Lockhart:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON
Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque
OCD District Office - Hobbs

State of New Mexico



JIM BACA
COMMISSIONER



Commissioner of Public Lands

March 1, 1984

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery Uses
910 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: 1984 Plan of Development
Maduro Unit Agreement
Lea County, New Mexico

ATTENTION: Mr. Robert V. Lockhart

Gentlemen:

The Commissioner of Public Lands has this date approved your 1984 Plan of Development for the Maduro Unit, Lea County, New Mexico. Such Plan calls for no additional drilling and monitor the performance of the Well Nos. 1 and 2 for possible recompletion or additional stimulation treatments. Our approval is subject to like approval by the Bureau of Land Management and the New Mexico Oil Conservation Division.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505/827-5744

JB/RDG/pm
encls.

cc: OCD-Santa Fe, New Mexico
BLM-Albuquerque, New Mexico
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

State of New Mexico



JIM BACA
COMMISSIONER

Commissioner of Public Lands

March 25, 1983

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

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

*Case
6516*

Re: 1983 Plan of Development
Maduro Unit
Lea County, New Mexico

ATTENTION: Mr. Robert V. Lockhart

Gentlemen:

The Commissioner of Public Lands has this date approved your 1983 Plan of Development for the Maduro Unit, Lea County, New Mexico. Such Plan calls for no additional drilling and to monitor the Well Nos. 1 & 2, for possible recompletions. Our approval is subject to like approval by the Bureau of Land Management and the New Mexico Oil Conservation Division.

Enclosed is an approved copy for your files.

Your filing fee in the Amount of Three (\$3.00) Dollars has been received.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY:
FLOYD O. PRANDO, Assistant Director
Oil and Gas Division
AC 505/827-5744

JB/FOP/pm
encls.

cc: OCD-Santa Fe, New Mexico
BLM-Albuquerque, New Mexico



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

March 31, 1983

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Union Oil Co. of California
P.O. Box 671
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: Maduro Unit
1983 Plan of Development
Lea County, New Mexico

Dear Mr. Lockhart:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the United States Minerals Management Service.

Sincerely,

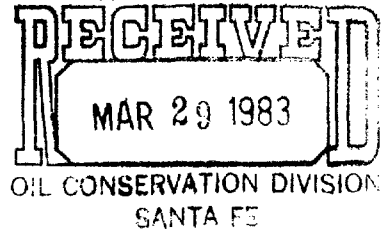
ROY E. JOHNSON
Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe
Minerals Management Service - Albuquerque
OCD District Office -Hobbs

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



Robert V. Lockhart
District Land Manager
Midland District

March 25, 1983

Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

Gentlemen:

1983 Plan of Development
Maduro Unit
Case No. 6516
Maduro Prospect (8138)
Lea County, New Mexico

Enclosed for your review please find two (2) copies of Union Oil Company of California's "1983 Plan of Development and Operation for the Maduro Unit Area."

Union, as Operator, respectfully requests your consideration and approval of this plan. Should you have any additional questions, please contact the undersigned.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script that reads "Robert V. Lockhart".

Robert V. Lockhart
District Land Manager

Handwritten initials "LHH" in cursive script.

LHH:RVL:gjl

Enclosures

CERTIFIED: P220603055

1983 PLAN OF DEVELOPMENT AND OPERATION
FOR
MADURO UNIT AREA
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

ATTN: Mr. Joe D. Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979 (No. 14-08-0001-18028), respectfully submits for approval this 1983 Plan of Development and Operation for the period ending December 31, 1983.

SUMMARY OF 1982 OPERATIONS

Maduro Unit Well No. 3, located 1880' FNL, 1980' FWL, Section 33, T-19-S, R-33-E was drilled reaching a total depth of 13,657' on January 25, 1982. The well was plugged and abandoned on May 24, 1982, after testing in the Lower Morrow, Middle Morrow and Bone Springs zones revealed no economical production.

During 1982, the Maduro Unit Well No. 1, perforated in the Lower and Middle Morrow, produced 58,173 MCF (low pressure gas) and 165 barrels of condensate. The Maduro Unit Well No. 2, a Lower Morrow producer, produced 384,182 MCF and 11,699 barrels of condensate for 1982.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1983

Union has no plans to drill any new wells in the Unit during 1983. The performance of Well No. 1, NW/4SE/4 Section 29, T-19-S, R-33-E, and Well No. 2, NE/4NW/4 Section 32, T-19-S, R-33-E, will be monitored for possible recompletion.

A planned recompletion of the Laguna Unit Well No. 2, which is located in the SW/4 of Section 26, T-19-S, R-33-E, will be used to evaluate the potential of recompleting the Maduro No. 2 when Lower Morrow reserves are depleted.

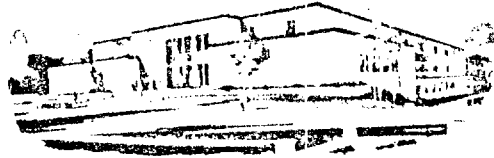
Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 25 day of March, 1983.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart
District Land Manager
Robert V. Lockhart *by RVL*

State of New Mexico



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

April 12, 1982

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Union Oil and Gas Company of California
P. O. Box 671
Midland, Texas 79702

Re: Maduro Unit
Lea County, New Mexico
1982 Plan of Development

6516

ATTENTION: Mr. Robert V. Lockhart

Gentlemen:

The Commissioner of Public Lands has this date approved your 1982 Plan of Development for the Maduro Unit, Lea County, New Mexico. Such plan proposes to complete the Unit Well No. 3 and monitor production from a well outside the unit area to the west in the NE/4SE/4 of Section 30. Our approval is subject to like approval by the United States Minerals Management Service and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Your filing fee in the amount of Three (\$3.00) Dollars has been received.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505/827-2748

AJA/RDG/pm
encls.
cc:

OCD-Santa Fe, New Mexico
USMMS-Albuquerque, New Mexico



BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

April 19, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

6516

Union Oil Company of Calif.
P. O. Box 671
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: 1982 Plan of Development for
Maduro Unit, Lea County,
New Mexico

Dear Mr. Lockhart:

The New Mexico Oil Conservation Division has this date approved your 1982 Plan of Development for the Maduro Unit, Lea County, New Mexico. Our approval is subject to like approval by the Minerals Management Service and the Commissioner of Public Lands of the State of New Mexico.

Sincerely,

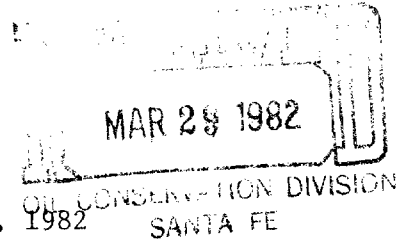
W. PERRY PEARCE
General Counsel

WPP/dr

cc: Minerals Management Service - Albuquerque
Commissioner of Public Lands

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



March 26, 1982

Robert V. Lockhart

District Land Manager
Midland District

Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

Gentlemen:

Maduro Unit
Case No. 6516
1982 Plan of Development
Lea County, New Mexico

Enclosed for your review please find 2 (two) copies of Union Oil Company of California's "1982 Plan of Development and Operation for the Maduro Unit Area.

Union as Operator respectfully requests your consideration and approval of this plan. Should you have any additional questions, please contact the undersigned.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script that reads "Robert V. Lockhart".

Robert V. Lockhart
District Landman

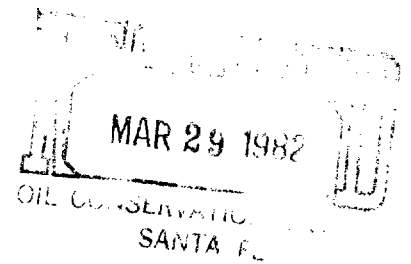
RVL:1hh
Enclosures

1982 PLAN OF DEVELOPMENT AND OPERATION

FOR

MADURO UNIT AREA

LEA COUNTY, NEW MEXICO



TO: Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979, (No. 14-08-0001-18028), respectfully submits for approval this 1982 Plan of Development and Operation for the Maduro Unit Area. This plan is for the period ending December 31, 1982.

SUMMARY OF 1981 OPERATIONS

Unit Well No. 3, located 1880' FNL, 1980' FWL, Section 33, T-19-S, R-33-E, was spudded December 3, 1981. The well reached a total depth of 13,657' on January 25, 1982. Completion tools were rigged up on February 22, 1982, and the well completion is still in progress.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1982

Unit development offsetting the now completing Well No. 3 will be dependent upon the production performance of that well.

Aminoil has recently drilled a Morrow well in the NE/4SE/4 Section 30, offsetting the Maduro Unit Area to the west. Production performance of the well along with that of Unit Well Nos. 1 and 2 will be monitored in an effort to evaluate the feasibility of drilling a well in the W/2 of Section 29.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 8 day of March, 1982.

UNION OIL COMPANY OF CALIFORNIA

BY: Robert V. Reckert
District Land Manager

1982 PLAN OF DEVELOPMENT AND OPERATION

FOR

MADURO UNIT AREA

LEA COUNTY, NEW MEXICO

6516

TO: Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the Maduro Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the Maduro Unit Area dated May 3, 1979, (No. 14-08-0001-18028), respectfully submits for approval this 1982 Plan of Development and Operation for the Maduro Unit Area. This plan is for the period ending December 31, 1982.

SUMMARY OF 1981 OPERATIONS

Unit Well No. 3, located 1880' FNL, 1980' FWL, Section 33, T-19-S, R-33-E, was spudded December 3, 1981. The well reached a total depth of 13,657' on January 25, 1982. Completion tools were rigged up on February 22, 1982, and the well completion is still in progress.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1982

Unit development offsetting the now completing Well No. 3 will be dependent upon the production performance of that well.

Aminoil has recently drilled a Morrow well in the NE/4SE/4 Section 30, offsetting the Maduro Unit Area to the west. Production performance of the well along with that of Unit Well Nos. 1 and 2 will be monitored in an effort to evaluate the feasibility of drilling a well in the W/2 of Section 29.

Our plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 8 day of March, 1982.

UNION OIL COMPANY OF CALIFORNIA

BY:

Robert V. Kiehlert
District Land Manager

approved
4/9/82
W/JJ

State of New Mexico



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

October 22, 1981

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Union Oil Company of California
P. O. Box 671
Midland, Texas 79701

6516

Re: Maduro Unit
Lea County, New Mexico
Revised First Revision of the
Morrow Participating Area

ATTENTION: Ms. Linda H. Hicks

Gentlemen:

This office is in receipt of a ratification and joinder to the Maduro Unit Agreement. By this document Union Oil Company of California as lessee of record commits all lands in Lease NM 46274 described as the N/2 NW/4 Section 33, Township 19 South, Range 33 East, Lea County, New Mexico, containing 80.00 acres and listed as Tract 4 in Exhibit "B". This ratification and joinder are hereby accepted and Tract 4 is now considered to be fully committed as of October 1, 1981.

The Commissioner of Public Lands has also on this date approved your Application for Approval of the Revised First Revision for the Morrow Participating Area. Such revision reflects the participation factors in Exhibit "B" which has been changed to show that Tract 4 will now be entitled to participation.

Enclosed is one approved copy for your files.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director,
Oil and Gas Division
AC 505/827-2748

AJA/RDC/pm
encl.
cc:

OCD-Santa Fe, New Mexico
USGS-Albuquerque, New Mexico
OGAD-Santa Fe, New Mexico



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

December 29, 1981

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Union Oil Company of
California
P. O. Box 671
Midland, Texas 79701

Attention: Ms. Linda H. Hicks

Re: Maduro Unit, Lea County
New Mexico - Revised
First Revision of the
Morrow Participating Area

Dear Ms. Hicks:

The New Mexico Oil Conservation Division has on this date approved your application for approval of the Revised First Revision for the Morrow Participating Area of the Maduro Unit. This Revised First Revision reflects the participation factors in Exhibit "B" which has been changed to show that Tract 4 will now be entitled to participate.

Sincerely yours,

W. PERRY PEARCE
General Counsel

WPP/dr

cc: Commissioner of Public Lands
U. S. Geological Survey - Albuquerque
Oil & Gas Accounting Division - Santa Fe

unit
6516

RATIFICATION AND JOINDER
TO THE
MADURO UNIT AGREEMENT
DATED March 20, 1979
DESIGNATED NO. 14-08-0001-18028

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, certain instruments entitled Unit Agreement For The Development and Operation of the Maduro Unit Area, Lea County, New Mexico, and Unit Operating Agreement, Maduro Unit, Lea County, New Mexico, have been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the Maduro Unit Area, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the undersigned, on March 20, 1979, did execute the aforesaid Maduro Unit Agreement and Unit Operating Agreement, and agree to be bound by the terms thereof; and

WHEREAS, the undersigned will be the lessee of record in Oil and Gas Lease NM-46274 when said lease is issued; and

WHEREAS, Oil and Gas Lease NM-46274, when issued, will cover lands described as:

Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico
Section 33: N/2 NW/4

which lands are included in the Maduro Unit Area.

NOW, THEREFORE, the undersigned, as lessee of record in Oil and Gas Lease NM-46274, when said lease is issued, does hereby commit said lease to the Maduro Unit Agreement as Tract No. 4 therein, and Union Oil Company of California, as Unit Operator, does hereby consent to said commitment.

This instrument to be effective as of the date of issuance of Oil and Gas Lease NM-46274.

UNION OIL COMPANY OF CALIFORNIA

Date: August 13, 1981
Address: P. O. Box 3100
Midland, Texas 79702

By *Samuel C. Terry*
Attorney-in-Fact

As Lessee of Record and Unit Operator

STATE OF TEXAS, X
 X
COUNTY OF MIDLAND. X

The foregoing instrument was acknowledged before me this 13th day of August, 1981, by SAMUEL C. TERRY, Attorney-in-Fact of UNION OIL COMPANY OF CALIFORNIA, a California corporation, on behalf of said corporation.

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

My Commission Expires:
April 22, 1984

Lorretta C. Hyatt LORRETTA C. HYATT
Notary Public

RATIFICATION AND JOINDER
TO THE
MADURO UNIT AGREEMENT
DATED March 20, 1979
DESIGNATED NO. 14-08-0001-18028

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, certain instruments entitled Unit Agreement For The Development and Operation of the Maduro Unit Area, Lea County, New Mexico, and Unit Operating Agreement, Maduro Unit, Lea County, New Mexico, have been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the Maduro Unit Area, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the undersigned, on March 20, 1979, did execute the aforesaid Maduro Unit Agreement and Unit Operating Agreement, and agree to be bound by the terms thereof; and

WHEREAS, the undersigned will be the lessee of record in Oil and Gas Lease NM-46274 when said lease is issued; and

WHEREAS, Oil and Gas Lease NM-46274, when issued, will cover lands described as:

Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico
Section 33: N/2 NW/4

which lands are included in the Maduro Unit Area.

NOW, THEREFORE, the undersigned, as lessee of record in Oil and Gas Lease NM-46274, when said lease is issued, does hereby commit said lease to the Maduro Unit Agreement as Tract No. 4 therein, and Union Oil Company of California, as Unit Operator, does hereby consent to said commitment.

This instrument to be effective as of the date of issuance of Oil and Gas Lease NM-46274.

UNION OIL COMPANY OF CALIFORNIA

Date: August 13, 1981
Address: P. O. Box 3100
Midland, Texas 79702

By *Samuel C. Terry*
Attorney-in-Fact

As Lessee of Record and Unit Operator

STATE OF TEXAS, X
 X
COUNTY OF MIDLAND. X

The foregoing instrument was acknowledged before me this 13th day of August, 1981, by SAMUEL C. TERRY, Attorney-in-Fact of UNION OIL COMPANY OF CALIFORNIA, a California corporation, on behalf of said corporation.

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

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RATIFICATION AND JOINDER
TO THE
MADURO UNIT AGREEMENT
DATED March 20, 1979
DESIGNATED NO. 14-08-0001-18028

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WHEREAS, certain instruments entitled Unit Agreement For The Development and Operation of the Maduro Unit Area, Lea County, New Mexico, and Unit Operating Agreement, Maduro Unit, Lea County, New Mexico, have been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the Maduro Unit Area, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the undersigned, on March 20, 1979, did execute the aforesaid Maduro Unit Agreement and Unit Operating Agreement, and agree to be bound by the terms thereof; and

WHEREAS, the undersigned will be the lessee of record in Oil and Gas Lease NM-46274 when said lease is issued; and

WHEREAS, Oil and Gas Lease NM-46274, when issued, will cover lands described as:

Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico
Section 33: N/2 NW/4

which lands are included in the Maduro Unit Area.

NOW, THEREFORE, the undersigned, as lessee of record in Oil and Gas Lease NM-46274, when said lease is issued, does hereby commit said lease to the Maduro Unit Agreement as Tract No. 4 therein, and Union Oil Company of California, as Unit Operator, does hereby consent to said commitment.

This instrument to be effective as of the date of issuance of Oil and Gas Lease NM-46274.

UNION OIL COMPANY OF CALIFORNIA

Date: August 13, 1981
Address: P. O. Box 3100
Midland, Texas 79702

By *Samuel C. Terry*
Attorney-in-Fact

As Lessee of Record and Unit Operator

STATE OF TEXAS, Y
 Y
COUNTY OF MIDLAND. Y

The foregoing instrument was acknowledged before me this 13th day of August, 1981, by SAMUEL C. TERRY, Attorney-in-Fact of UNION OIL COMPANY OF CALIFORNIA, a California corporation, on behalf of said corporation.

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

My Commission Expires:
April 22, 1984

Lorretta C. Hyatt LORRETTA C. HYATT
Notary Public



United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125-6124

RECEIVED

OCT 12 1981

OCT 8 1981

MIDLAND - LAND

RECEIVED

OCT 13 1981

MIDLAND DISTRICT LAND

Union Oil Company of California
Attention: Samuel C. Terry
P. O. Box 3100
Midland, Texas 79702

Gentlemen:

On September 25, 1981, this office received a ratification and joinder to the Maduro Unit Agreement and unit operating agreement. By this document Union Oil Company of California as lessee of record, working interest owner, and unit operator commits all lands in lease NM 46274 to the Maduro Unit. The acreage committed is described as the N $\frac{1}{2}$ NW $\frac{1}{4}$ section 33, T. 19 S., R. 33 E., N.M.P.M., Lea County, New Mexico, containing 80.0 acres. This land is listed as Tract 4 in Exhibit B.

The ratification and joinder is hereby accepted for record purposes and Tract 4 is now considered to be fully committed as of October 1, 1981. Copies of the document are being distributed to the appropriate Federal offices.

Sincerely yours,

Gene F. Daniel

Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

*XC: Bob Lockhart ✓
w/att, Ratification*

RATIFICATION AND JOINDER
TO THE
MADURO UNIT AGREEMENT
DATED March 20, 1979
DESIGNATED NO. 14-08-0001-18028

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, certain instruments entitled Unit Agreement For The Development and Operation of the Maduro Unit Area, Lea County, New Mexico, and Unit Operating Agreement, Maduro Unit, Lea County, New Mexico, have been executed as of the 20th day of March, 1979, by various persons conducting operations with respect to the Maduro Unit Area, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the undersigned, on March 20, 1979, did execute the aforesaid Maduro Unit Agreement and Unit Operating Agreement, and agree to be bound by the terms thereof; and

WHEREAS, the undersigned will be the lessee of record in Oil and Gas Lease NM-46274 when said lease is issued; and

WHEREAS, Oil and Gas Lease NM-46274, when issued, will cover lands described as:

Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico
Section 33: N/2 NW/4

which lands are included in the Maduro Unit Area.

NOW, THEREFORE, the undersigned, as lessee of record in Oil and Gas Lease NM-46274, when said lease is issued, does hereby commit said lease to the Maduro Unit Agreement as Tract No. 4 therein, and Union Oil Company of California, as Unit Operator, does hereby consent to said commitment.

This instrument to be effective as of the date of issuance of Oil and Gas Lease NM-46274.

UNION OIL COMPANY OF CALIFORNIA

Date: August 13, 1981
Address: P. O. Box 3100
Midland, Texas 79702

By *Samuel C. Terry* c.s.
Attorney-in-Fact

As Lessee of Record and Unit Operator

STATE OF TEXAS, X
 X
COUNTY OF MIDLAND. X

The foregoing instrument was acknowledged before me this 13th day of August, 1981, by SAMUEL C. TERRY, Attorney-in-Fact of UNION OIL COMPANY OF CALIFORNIA, a California corporation, on behalf of said corporation.

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

My Commission Expires:
April 22, 1984

Loretta C. Hyatt LORRETTA C. HYATT
Notary Public

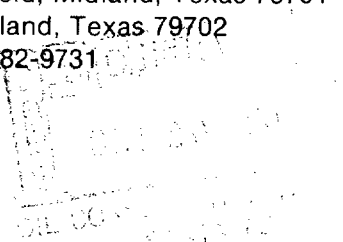
Accepted for Record

SEP 2 1981

Lee J. Lora
Deputy Conservation Manager, O&G
South Central Region

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



Robert V. Lockhart
District Land Manager
Midland District

October 15, 1981

6516

Oil Conservation Division
Energy and Minerals Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe Ramey, Director

Gentlemen:

Maduro Unit Area
Lea County, New Mexico
Case No. 6516

Please find enclosed an Application for Approval of the Revised First Revision of the Participating Area for the Morrow Formation. As our application explains, this revision is necessary because Union Oil Company of California has recently committed Lease NM-46274 to the Maduro Unit. The acreage involved is already in the First Revision of the Participating Area for the Morrow Formation, but it **has** not been committed to the Unit until now. Thus, the participation factors in Exhibit "B" thereto need to be changed to reflect that Tract 4 will now be entitled to participation.

Enclosed for your file is an original and two copies of Union's Ratification and Joinder committing Tract 4 (Lease NM-46274) to the Maduro Unit, which was a requirement before the Bureau of Land Management would issue same lease to Union as of October 1, 1981.

Also enclosed, please find a copy for your file of the U.S.G.S. letter dated October 8, 1981 approving the Ratification and accepting same for record purposes.

Should you have any questions regarding our application or require further information, please advise.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, reading "Linda H. Hicks".

Linda H. Hicks
Landman

LHH/s

MADURO UNIT AREA*
LEA COUNTY, NEW MEXICO
CASE NO. 6516

APPLICATION FOR APPROVAL
OF THE REVISED FIRST
REVISION OF THE PARTICIPATING
ARE FOR THE MORROW FORMATION

OIL CONSERVATION DIVISION
ENERGY AND MINERALS DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

ATTN: MR. JOE RAMEY, DIRECTOR

The First Revision of the Participating Area for the Morrow Formation for the Maduro Unit was approved by the U.S.G.S. on February 17, 1981 to be effective May 1, 1980. Approval from the Oil Conservation Division was received on December 8, 1980, and from the Commissioner of Public Lands on October 23, 1980. The Participating Area as revised includes 1,440.00 acres. However, only 1,360.00 acres were committed to the Unit. The Tract Participation factors in Exhibit "B" were calculated only on the committed acreage.

Tract 4 was never committed by Huber Corporation, Lessee of Record at the time of Unit formation. Tract 4 covers N/2NW/4 Section 33, T-19-S, R-33-E. Because Tract 4 was not held by Unit Operations, Lease NM-10780 expired. Thereafter the acreage was purchased by Union Oil Company of California as Lessee of Record at the June 23, 1981 KGS Sale, on behalf of the consenting Working Interest Owners in the Maduro Unit. A requirement in acquiring this acreage was to commit the tract to the Maduro Unit. Union complied by filing with the BLM a Ratification and Joinder committing the acreage to the Maduro Unit. The BLM approved the lease and issued same effective October 1, 1981. By letter dated October 8, 1981, the U.S.G.S. has accepted the Ratification and Joinder and considers the tract fully committed.

The commitment of this acreage necessitates a revision of the First Revision of the Participating Area for the Morrow Formation to reflect that Tract 4 is now committed and to change Tract Participation Factors accordingly.

A revised Exhibit "B" and Exhibit "A" are attached for your consideration. The revised Exhibit "B" reflects that all acres within the First Revision of the Participating Area for the Morrow Formation are now committed and the Tract Participation Factors have been changed accordingly. The revised Exhibit "A" reflects the new lease number and Lessee of Record for Tract 4.

Union Oil Company of California respectfully requests that you approve this Revised First Revision of the Participating Area for the Morrow Formation, to be effective October 1, 1981.

Dated this 15th day of October, 1981.

UNION OIL COMPANY OF CALIFORNIA

BY: Robert V. Lockhart by *LHH*
Robert V. Lockhart
District Land Manager

MADURO UNIT

20 640.00 Ac. 21 640.00 Ac.

② HUDSON & HUDSON NM 40276 U.S.

⑨ UNION NM 32591 U.S.

⑦ UNION NM 27570 U.S.

① W.G. ROSS et al NM 38181 U.S.

⑤ GULF NM 14794 U.S.

⑧ UNION NM 29702 U.S.

⑦ UNION NM 27570 U.S.

⑥ CONTINENTAL NM 15918 U.S.

③ GULF NM 9562 U.S.

④ UNION NM 46274 U.S.

⑪ UNION LG 3173 State


⑩ UNION L 4397-1 State

⑫ NORTHERN NATURAL LG 3230 State


MADURO UNIT FED. No. 2 T.D. 13,620 5-9-80

State 32 640.00 Ac. State 33 640.00 Ac.

A horizontal scale bar with markings for 0, 5000 FEET, and 1 MILE. The bar is divided into segments by vertical lines. The top segment is labeled '0' at the left and '5000 FEET' at the right. The bottom segment is labeled '0' at the left and '1 MILE' at the right. The bar is black with white markings and text.



11/11/2017



Revised 10-1-81

Exhibit "B"
 First Revision Morrow Formation
 Participating Area, As Revised
 Maduro Unit Agreement
 Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
1	NM-38181	All lands are in T-19-S, R-33-E, N.M.P.M.	120.00	8.333333	FROM SURFACE TO 13,760 FEET Union Oil Company of California 31.9149% Gulf Oil Corporation 14.8936% William A. Hudson and 2.7606% Edward R. Hudson Edward R. Hudson, Jr., Agent .4309% and Attorney-in-Fact for B. D. Moore, Jr., et al William G. Ross 25.0000% *Superior Oil Company 25.0000%
4	NM-46274	Sec. 33: N/2 NW/4	80.00	5.55556	BELOW 13,760 FEET Aminoil USA 50.0000% William G. Ross 25.0000% Superior Oil Company 25.0000% Conoco, Inc. 8.62780% Union Oil Company of California 72.28048% William A. Hudson and 5.92892% Edward R. Hudson Edward R. Hudson, Jr., Agent .97602% and Attorney-in-Fact for B. D. Moore, Jr., et al InterNorth, Inc. 8.62780% William G. Ross 1.61772% The Superior Oil Company 1.61772% Earle E. Unger .32354%

*A. C. Holder claims operating rights from surface to 4000' under Assignment of Operating Rights dated 6-13-61. Union Oil Company of California has farmout agreement with Holder.

Exhibit "B"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
All lands are in T-19-S, R-33-E <u>N.M.P.M.</u>					
5	NM-14794 Federal	Sec. 29: NE/4, N/2 NW/4 SE/4 NW/4, NE/4 SW/4, N/2 SE/4	400.00	27.77778	Gulf Oil Corporation - All
6	NM-15918 Federal	Sec. 28: SW/4	160.00	11.11111	FROM SURFACE TO 13,760 FEET Continental Oil Company 50.0000% Union Oil Company of California 31.9149% Gulf Oil Corporation 14.8936% William A. Hudson and 2.7606% Edward R. Hudson Edward R. Hudson, Jr., Agent .4309% and Attorney-in-Fact for B. D. Moore, Jr., et al
7	NM-27570 Federal	Sec. 28: NW/4	160.00	11.11111	<u>BELOW 13,760 FEET</u> Continental Oil Company - All
8	NM-29702 Federal	Sec. 29: S/2 SE/4, SE/4 SW/4	120.00	8.33333	Union Oil Company of California - All
10	L-4397-1 State	Sec. 32: NE/4	160.00	11.11111	Union Oil Company of California - All

Exhibit "g"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
All lands are in T-19-S, R-33-E N.M.P.M.					
11	LG-3173 State	Sec. 33: S/2 NW/4	80.00	5.55556	Union Oil Company of California - All
12	LG-3230 State	Sec. 32: NW/4	160.00	11.11111	Internorth, Inc. - All
			1,440.00	100.00000	
SUMMARY					
TYPE LAND			COMMITTED ACRES	PERCENT	
Federal			1,040.00	72.22222	
State			400.00	27.77778	
TOTAL			1,440.00	100.00000%	

MADURO UNIT AREA*
LEA COUNTY, NEW MEXICO
CASE NO. 6516

APPLICATION FOR APPROVAL
OF THE REVISED FIRST
REVISION OF THE PARTICIPATING
ARE FOR THE MORROW FORMATION

OIL CONSERVATION DIVISION
ENERGY AND MINERALS DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

ATTN: MR. JOE RAMEY, DIRECTOR

The First Revision of the Participating Area for the Morrow Formation for the Maduro Unit was approved by the U.S.G.S. on February 17, 1981 to be effective May 1, 1980. Approval from the Oil Conservation Division was received on December 8, 1980, and from the Commissioner of Public Lands on October 23, 1980. The Participating Area as revised includes 1,440.00 acres. However, only 1,360.00 acres were committed to the Unit. The Tract Participation factors in Exhibit "B" were calculated only on the committed acreage.

Tract 4 was never committed by Huber Corporation, Lessee of Record at the time of Unit formation. Tract 4 covers N/2NW/4 Section 33, T-19-S, R-33-E. Because Tract 4 was not held by Unit Operations, Lease NM-10780 expired. Thereafter the acreage was purchased by Union Oil Company of California as Lessee of Record at the June 23, 1981 KGS Sale, on behalf of the consenting Working Interest Owners in the Maduro Unit. A requirement in acquiring this acreage was to commit the tract to the Maduro Unit. Union complied by filing with the BLM a Ratification and Joinder committing the acreage to the Maduro Unit. The BLM approved the lease and issued same effective October 1, 1981. By letter dated October 8, 1981, the U.S.G.S. has accepted the Ratification and Joinder and considers the tract fully committed.

The commitment of this acreage necessitates a revision of the First Revision of the Participating Area for the Morrow Formation to reflect that Tract 4 is now committed and to change Tract Participation Factors accordingly.

A revised Exhibit "B" and Exhibit "A" are attached for your consideration. The revised Exhibit "B" reflects that all acres within the First Revision of the Participating Area for the Morrow Formation are now committed and the Tract Participation Factors have been changed accordingly. The revised Exhibit "A" reflects the new lease number and Lessee of Record for Tract 4.

Union Oil Company of California respectfully requests that you approve this Revised First Revision of the Participating Area for the Morrow Formation, to be effective October 1, 1981.

Dated this 15th day of October, 1981.

UNION OIL COMPANY OF CALIFORNIA

BY: Robert V. Lockhart by
Robert V. Lockhart
District Land Manager *LHH*

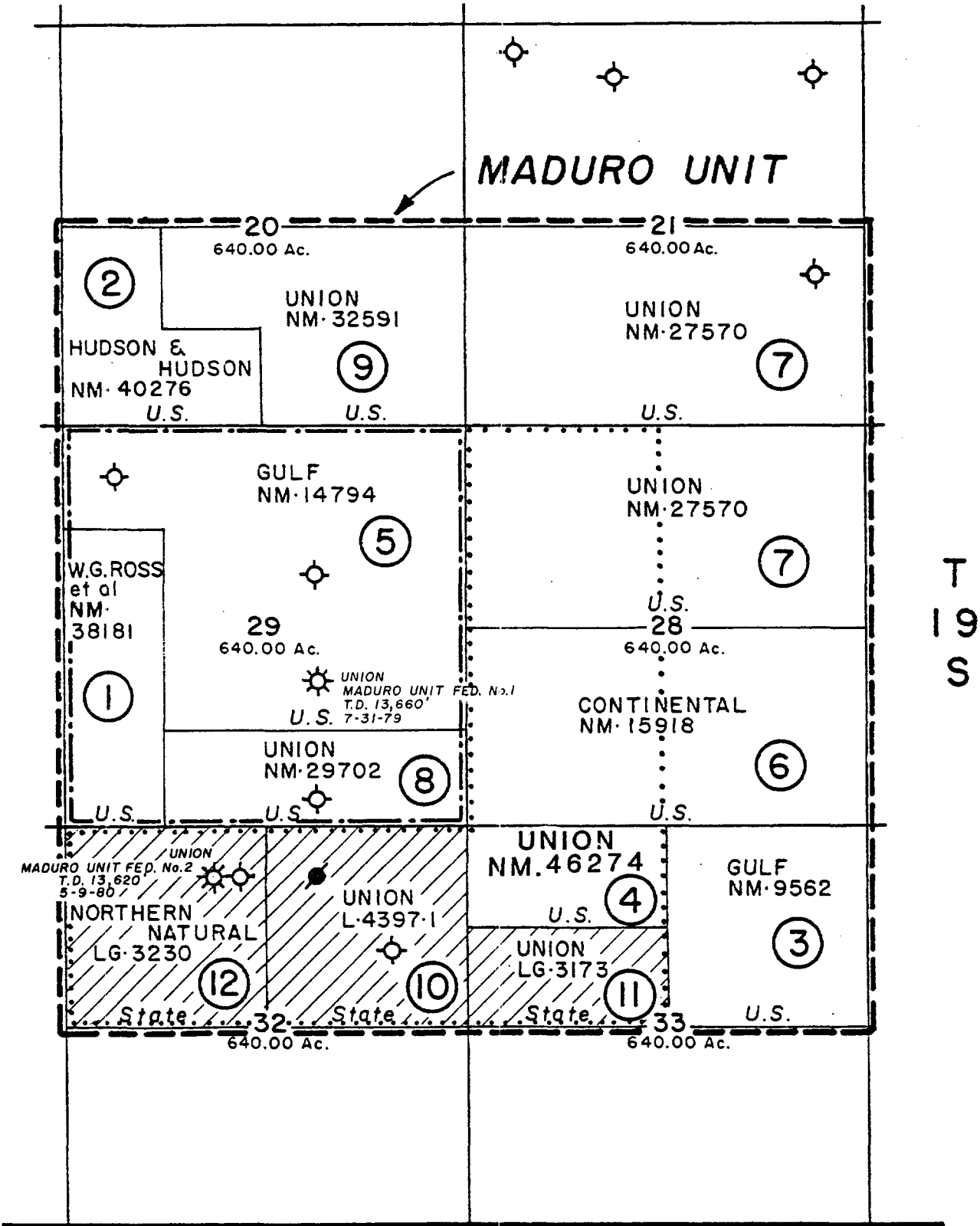
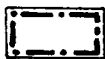


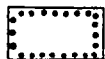
EXHIBIT "A"
MADURO UNIT
LEA COUNTY, NEW MEXICO



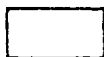
① TRACT NUMBER - EXHIBIT "B"



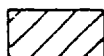
MORROW PARTICIPATING AREA



1st REVISION - MORROW PARTICIPATING AREA



FEDERAL 2160.00 Ac. 84.37500 %



STATE 400.00 Ac. 15.62500 %
2560.00 Ac. 100.00000 %

Exhibit "B"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

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BELOW 13,760 FEET					
		Aminoil USA		50.0000%	
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Exhibit "B"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

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			1,440.00	100.00000	
<u>SUMMARY</u>					
TYPE LAND			COMMITTED ACRES	PERCENT	
Federal			1,040.00	72.22222	
State			400.00	27.77778	
TOTAL			1,440.00	100.00000%	

MADURO UNIT AREA
LEA COUNTY, NEW MEXICO
CASE NO. 6516

APPLICATION FOR APPROVAL
OF THE REVISED FIRST
REVISION OF THE PARTICIPATING
ARE FOR THE MORROW FORMATION

OIL CONSERVATION DIVISION
ENERGY AND MINERALS DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

ATTN: MR. JOE RAMEY, DIRECTOR

The First Revision of the Participating Area for the Morrow Formation for the Maduro Unit was approved by the U.S.G.S. on February 17, 1981 to be effective May 1, 1980. Approval from the Oil Conservation Division was received on December 8, 1980, and from the Commissioner of Public Lands on October 23, 1980. The Participating Area as revised includes 1,440.00 acres. However, only 1,360.00 acres were committed to the Unit. The Tract Participation factors in Exhibit "B" were calculated only on the committed acreage.

Tract 4 was never committed by Huber Corporation, Lessee of Record at the time of Unit formation. Tract 4 covers N/2NW/4 Section 33, T-19-S, R-33-E. Because Tract 4 was not held by Unit Operations, Lease NM-10780 expired. Thereafter the acreage was purchased by Union Oil Company of California as Lessee of Record at the June 23, 1981 KGS Sale, on behalf of the consenting Working Interest Owners in the Maduro Unit. A requirement in acquiring this acreage was to commit the tract to the Maduro Unit. Union complied by filing with the BLM a Ratification and Joinder committing the acreage to the Maduro Unit. The BLM approved the lease and issued same effective October 1, 1981. By letter dated October 8, 1981, the U.S.G.S. has accepted the Ratification and Joinder and considers the tract fully committed.

The commitment of this acreage necessitates a revision of the First Revision of the Participating Area for the Morrow Formation to reflect that Tract 4 is now committed and to change Tract Participation Factors accordingly.

A revised Exhibit "B" and Exhibit "A" are attached for your consideration. The revised Exhibit "B" reflects that all acres within the First Revision of the Participating Area for the Morrow Formation are now committed and the Tract Participation Factors have been changed accordingly. The revised Exhibit "A" reflects the new lease number and Lessee of Record for Tract 4.

Union Oil Company of California respectfully requests that you approve this Revised First Revision of the Participating Area for the Morrow Formation, to be effective October 1, 1981.

Dated this 15th day of October, 1981.

UNION OIL COMPANY OF CALIFORNIA

BY: Robert V. Lockhart by
Robert V. Lockhart
District Land Manager *LHH*

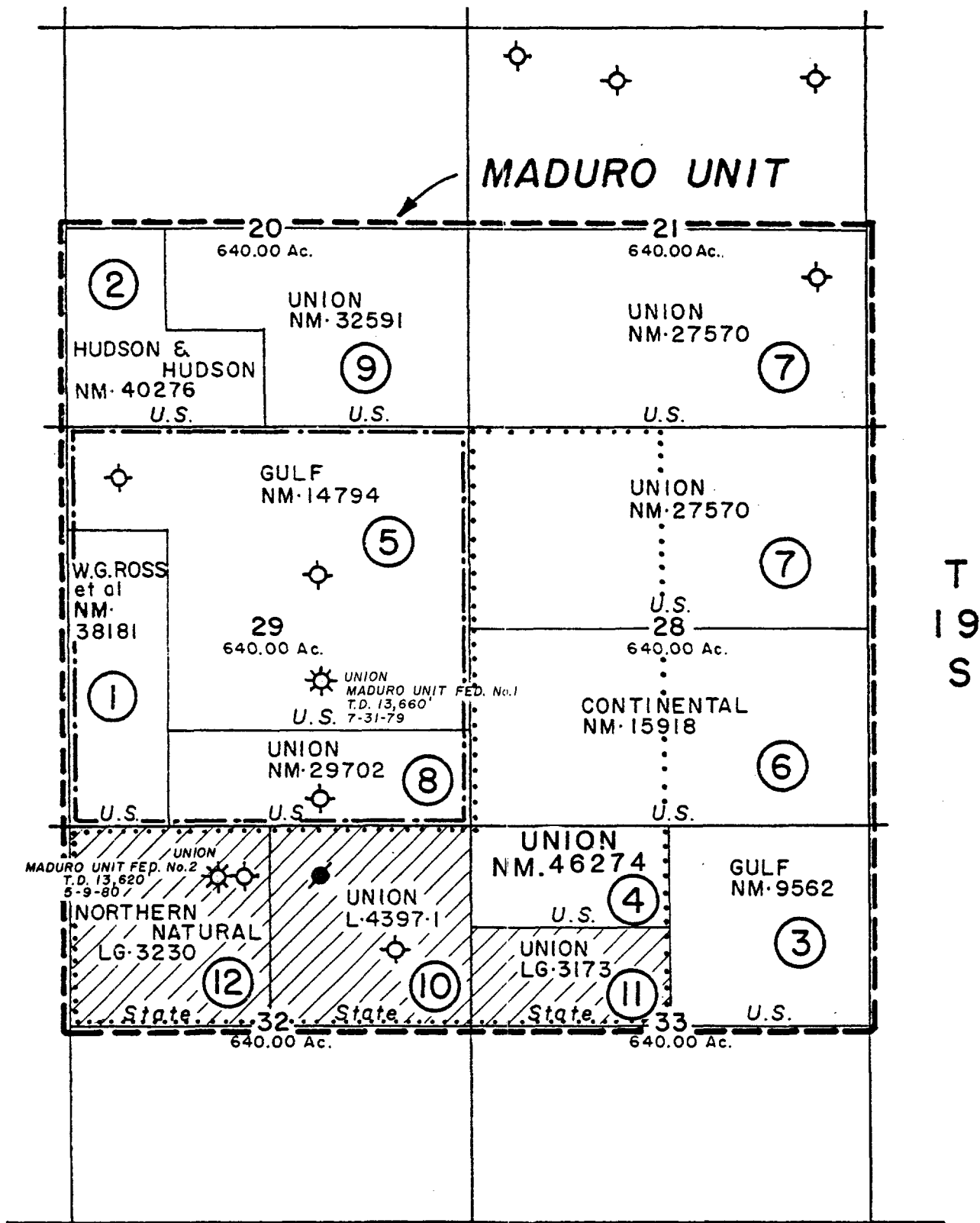
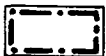


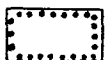
EXHIBIT "A"
MADURO UNIT
LEA COUNTY, NEW MEXICO



① TRACT NUMBER - EXHIBIT "B"



MORROW PARTICIPATING AREA



1st REVISION - MORROW PARTICIPATING AREA



	FEDERAL	2160.00 Ac.	84.37500%
	STATE	400.00 Ac.	15.62500%
		<u>2560.00 Ac.</u>	<u>100.00000%</u>

Exhibit "B"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
1	NM-38181	Sec. 29: W/2 SW/4, SW/4 NW/4 All lands are in T-19-S, R-33-E, N.M.P.M.	120.00	8.33333	<div>FROM SURFACE TO 13,760 FEET</div> <div>Union Oil Company of California 31.9149%</div> <div>Gulf Oil Corporation 14.8936%</div> <div>William A. Hudson and 2.7606%</div> <div>Edward R. Hudson</div> <div>Edward R. Hudson, Jr., Agent .4309%</div> <div>and Attorney-in-Fact for</div> <div>B. D. Moore, Jr., et al</div> <div>William G. Ross 25.0000%</div> <div>*Superior Oil Company 25.0000%</div>
4	NM-46274	Sec. 33: N/2 NW/4	80.00	5.55556	<div>BELOW 13,760 FEET</div> <div>Aminoil USA 50.0000%</div> <div>William G. Ross 25.0000%</div> <div>Superior Oil Company 25.0000%</div> <div>Conoco, Inc. 8.62780%</div> <div>Union Oil Company of California 72.28048%</div> <div>William A. Hudson and 5.92892%</div> <div>Edward R. Hudson</div> <div>Edward R. Hudson, Jr., Agent .97602%</div> <div>and Attorney-in-Fact for</div> <div>B. D. Moore, Jr., et al</div> <div>InterNorth, Inc. 8.62780%</div> <div>William G. Ross 1.61772%</div> <div>The Superior Oil Company 1.61772%</div> <div>Earle E. Unger .32354%</div>

*A. C. Holder claims operating rights from surface to 4000' under Assignment of Operating Rights dated 6-13-61. Union Oil Company of California has farmout agreement with Holder.

Exhibit "B"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
All lands are in T-19-S, R-33-E <u>N.M.P.M.</u>					
5	NM-14794 Federal	Sec. 29: NE/4, N/2 NW/4 SE/4 NW/4, NE/4 SW/4, N/2 SE/4	400.00	27.77778	Gulf Oil Corporation - All
6	NM-15918 Federal	Sec. 28: SW/4	160.00	11.11111	FROM SURFACE TO 13,760 FEET <u>Continental Oil Company</u> 50.0000% Union Oil Company of California 31.9149% Gulf Oil Corporation 14.8936% William A. Hudson and 2.7606% Edward R. Hudson Edward R. Hudson, Jr., Agent .4309% and Attorney-in-Fact for B. D. Moore, Jr., et al
7	NM-27570 Federal	Sec. 28: NW/4	160.00	11.11111	<u>BELOW 13,760 FEET</u> <u>Continental Oil Company - All</u> Union Oil Company of California - All
8	NM-29702 Federal	Sec. 29: S/2 SE/4, SE/4 SW/4	120.00	8.33333	Union Oil Company of California - All
10	L-4397-1 State	Sec. 32: NE/4	160.00	11.11111	Union Oil Company of California - All

Exhibit "B"
First Revision Morrow Formation
Participating Area, As Revised
Maduro Unit Agreement
Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
11	LG-3173 State	Sec. 33: S/2 NW/4	80.00	5.55556	Union Oil Company of California - All
12	LG-3230 State	Sec. 32: NW/4	160.00	11.11111	Internorth, Inc. - All
			1,440.00	100.00000	
<u>SUMMARY</u>					
<u>TYPE LAND</u>			<u>COMMITTED ACRES</u>	<u>PERCENT</u>	
		Federal	1,040.00	72.22222	
		State	400.00	27.77778	
		TOTAL	1,440.00	100.00000%	



United States Department of the Interior

GEOLOGICAL SURVEY

South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

RECEIVED

APR 27 1981

MIDLAND DISTRICT LAND

Maduro Pres. (8138)

17 APR 1981

Union Oil Company of California
Attention: Linda H. Hicks
P. O. Box 671
Midland, Texas 79702

65/6

Gentlemen:

Two approved copies of your 1981 plan of development for the Maduro unit area, Lea County, New Mexico are enclosed. Such plan, proposing the drilling of a third Morrow well in the NW $\frac{1}{4}$ section 33, T. 19 S., R. 33 E., and the possibility of reperforating the Maduro unit well #1, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

Henry H. Luccock, Jr.

FOR

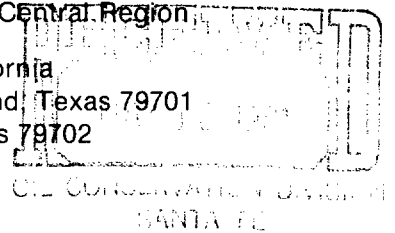
Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosures

*cc. John Hansen
Com. of Public Lands
OCD*

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Mariefeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



Robert V. Lockhart
District Land Manager
Midland District

May 12, 1981

Oil Conservation Division
Energy & Minerals Department
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey
Director

Gentlemen:

Re: Case No. 6516
Maduro Unit
1981 Plan of Development

Please find enclosed for your information and file letters from the U.S.G.S. and the Commissioner of Public Lands approving the 1981 Plan of Development for the Maduro Unit.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA

Linda H. Hicks
Landman

LHH/dcl

Enclosure

State of New Mexico



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

March 19, 1980

RECEIVED

MAR 20 1981

MIDLAND DISTRICT LAND

Maduro (8138)

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702

6516

Re: Maduro Unit
Lea County, New Mexico
1981 PLAN OF DEVELOPMENT

ATTENTION: Linda H. Hicks

Gentlemen:

The Commissioner of Public Lands has this date approved your 1981 Plan of Development for the Maduro Unit, Lea County, New Mexico. Such plan proposed the drilling of the third Morrow well in the NW/4 of Section 33, Township 19 South, Range 33 East, also, will continue your studies and evaluations on the wells already drilled. Our approval is subject to like approval by the United States Geological Survey. The New Mexico Oil Conservation Division gave their approval on March 10, 1981.

Enclosed is one approved copy for your files.

Your Three (\$3.00) dollar filing fee has been received.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:

Ray D. Graham

RAY D. GRAHAM, Director
Oil and Gas Division
AC 505-827-2748

AJA/RDG/s

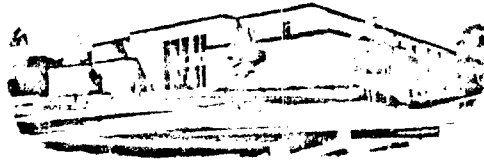
encls.

cc:

OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS- Albuquerque, New Mexico

cc. Glen Hansen
OCD

State of New Mexico



Commissioner of Public Lands

October 23, 1980

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Union Oil Company of California
500 North Marienfeld,
Midland, Texas 79701

6516

Re: Maduro Unit
Lea County, New Mexico
FIRST REVISION OF THE MORROW
PARTICIPATING AREA

ATTENTION: Mr. Robert V. Lockhart

Gentlemen:

The Commissioner of Public Lands has this date approved your application for approval of the First Revision of the participating area for the Morrow formation. Such revision adds 800 acres to the original 640 acre participating area and are described as follows:

Township 19 South, Range 33 East, N.M.P.M.

Section 28: W/2
Section 32: N/2
Section 33: NW/4

Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
FLOYD O. PRANDO, ASSISTANT
DIRECTOR- Oil & Gas Division
AC 505-827-2748

AJA/FOP/s
encl.
cc:

OCD-Santa Fe, New Mexico
USGS-Albuquerque, New Mexico
USGS-Roswell, New Mexico

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
P.O. Box 671, Midland, Texas 79702
Telephone (915) 682-9731



Robert V. Lockhart
District Land Manager
Midland District

January 27, 1981

Oil Conservation Division
Energy & Minerals Department
P. C. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

Gentlemen:

Case No. 6516
Maduro Unit
First Revision of the Participating Area
for the Morrow Formation

Union's application for the referenced was approved by your office by letter dated 12/8/80. The revision has also been approved by the Commission by letter dated 10/23/80, a copy of which is enclosed for your files.

In connection with our application for the First Revision of the Participating Area for the Morrow formation submitted to the U.S.G.S., additional information has been requested. Enclosed is one (1) copy of said material so that your files will reflect what additional material we have submitted to the U.S.G.S.

Thank you for your continued cooperation in this matter.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Linda H. Hicks
Linda H. Hicks
Landman

6516-1
JAN 30 1981
LHH:fb
Encls:
SANTA FE
COMMISSION



ALEX J. ARMIJO
COMMISSIONER

Commissioner of Public Lands

October 23, 1980

MIDLAND DISTRICT LAND

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Maduro Property (8138)

Union Oil Company of California
500 North Marienfeld,
Midland, Texas 79701

Re: Maduro Unit
Lea County, New Mexico
FIRST REVISION OF THE MORROW
PARTICIPATING AREA

ATTENTION: Mr. Robert V. Lockhart

Gentlemen:

The Commissioner of Public Lands has this date approved your application for approval of the First Revision of the participating area for the Morrow formation. Such revision adds 800 acres to the original 640 acre participating area and are described as follows:

Township 19 South, Range 33 East, N.M.P.M.

Section 28: W/2
Section 32: N/2
Section 33: NW/4

Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, ASSISTANT
DIRECTOR- Oil & Gas Division
AC 505-827-2748

JAN 6 1981
OIL CONSERVATION DIVISION
SANTA FE
AJA/FOP/s
encl.
cc:

OCD-Santa Fe, New Mexico
USGS-Albuquerque, New Mexico
USGS-Roswell, New Mexico

*Copy: John Hansen/Region ✓
W.I. Partners*

Alex J. Armijo
COMMISSIONER OF PUBLIC LANDS

BY: *Robert V. Lockhart*
Robert V. Lockhart
District Land Manager


GEOLOGICAL MEMO
MADURO UNIT
LEA COUNTY, NEW MEXICO

Justification for the proposed first revision of the Maduro Unit Participating Area is the presence of a sand body which has been interpreted to be a deltaic distributary channel or channel system. The configuration and extent of the sand body is shown in the sand isopach map and cross section.

As far as it can be determined from the available control wells, the sand body is considered to be present in the Maduro Federal #1 (containing 18 feet), the Maduro Federal #2 (containing 17 feet), and Kimo Sabe #1 (containing 11 feet). The sand is absent in the Laguna Plata Federal Unit #1. Drilling of the Federal "31-G" is currently underway and is so located to take advantage of the present interpretation. Additionally, the sand body exists in a structurally positive area which further improves the prospective potential of the subject lands.

In view of the data presented, it is requested that the lands described below be included in the first revision of the Maduro Unit Participating Area:

T-19-S, R-33-E, Section 28, W/2;
Section 32, N/2;
Section 33, NW/4.



Raymond L. Noble
UNION OIL COMPANY OF CALIFORNIA