

State of New Mexico  
Commissioner of Public Lands

#2385

W. R. Humphries  
COMMISSIONER

March 20, 1990

Advisory Board

George Clark  
Chairman

Kristin Conniff  
Vice Chairman

Melvin Cordova  
Joe Kelly

Robert Portillos  
Nancy Lynch Vigil  
Rex Wilson

Greenhill Petroleum Corporation  
16010 Barker's Point Lane, Suite 325  
Houston, Texas 77079

ATTN: Mr. Gene Linton

RE: ~~West Lovington Unit~~

Gentlemen:

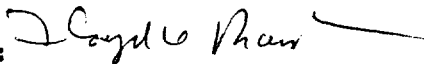
We received your correspondence regarding the approval of the resignation of Texaco as Unit Operator and the designation of Greenhill Petroleum Corporation as Successor Unit Operator for the West Lovington Unit.

The Commissioner of Public Lands has this date approved the resignation of Texaco as Unit Operator and the designation of Greenhill Petroleum Corporation as the successor Unit Operator of the West Lovington Unit. Please advise all interested parties.

If you have any questions, please contact Susan Howarth at (505) 827-5791.

Very truly yours,

W.R. HUMPHRIES,  
COMMISSIONER OF PUBLIC LANDS

BY: 

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



# GREENHILL PETROLEUM CORPORATION

16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX. (713) 870-1831

Incorporated in Delaware, U.S.A.

GREENHILL PETROLEUM CORPORATION  
WEST LOVINGTON UNIT  
C.A. #14-08-0001-7919  
LEA COUNTY, NEW MEXICO

# 2385

## 1989 PLAN OF DEVELOPMENT

### 1988 Production Summary

	<u>1988</u>	<u>Cumulative Since Unit</u>
Oil (mmbbls)	75.8	4,754.7
Gas (mmcf)	35.8	1,353.0
Produced water (mmbbls)	677.5	28,469.4
Injected water (mmbbls)	677.5	48,020.4

### Well Status

	<u>Active</u>	<u>Shut-In</u>	<u>T.A.</u>	<u>Total</u>
Oil	22	2	9	33
Injection	13	8	3	24
Water Supply	0	2	0	2
Total	35	12	12	59

### 1989 Activities

No development drilling is planned for 1989

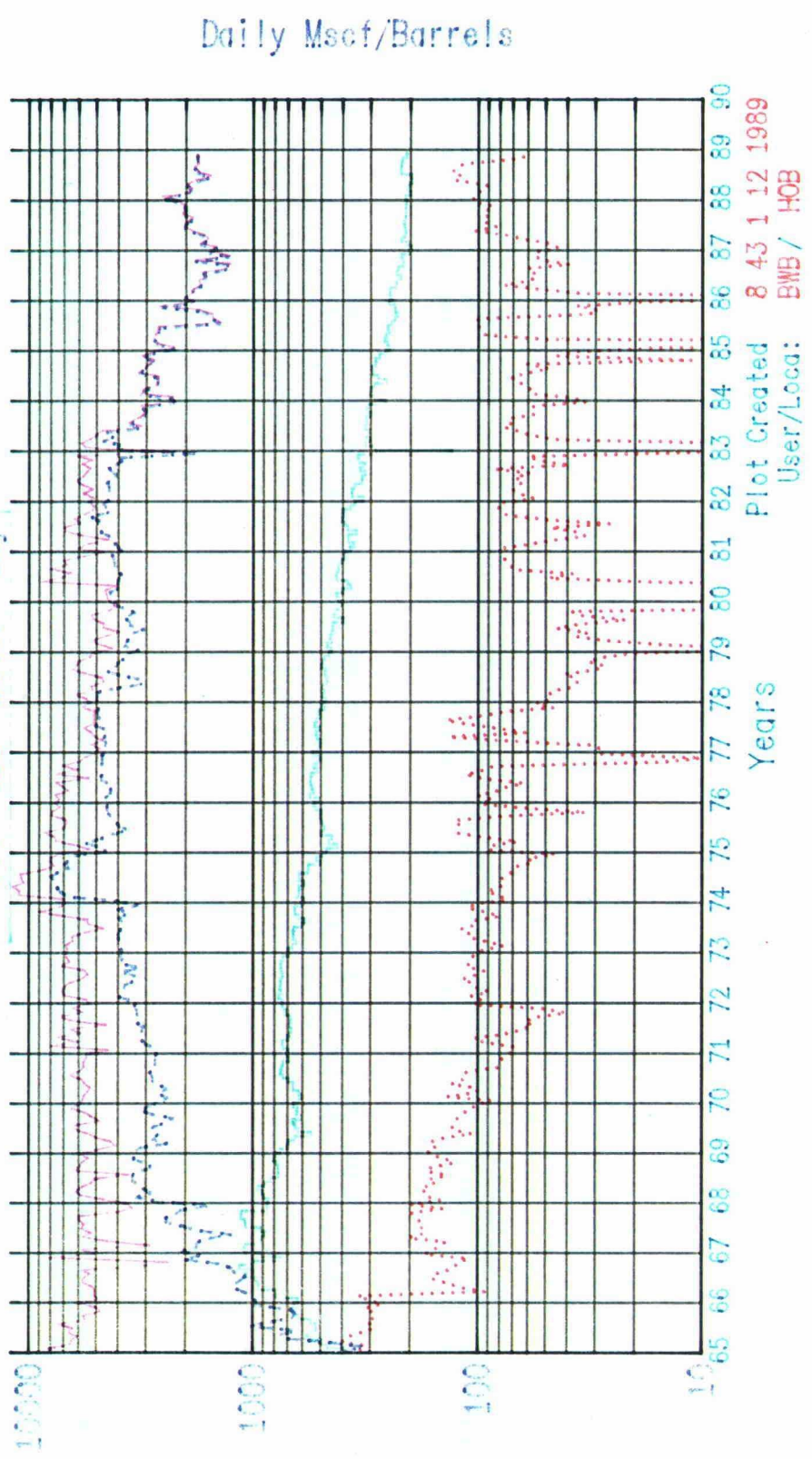
### 1988 Activities

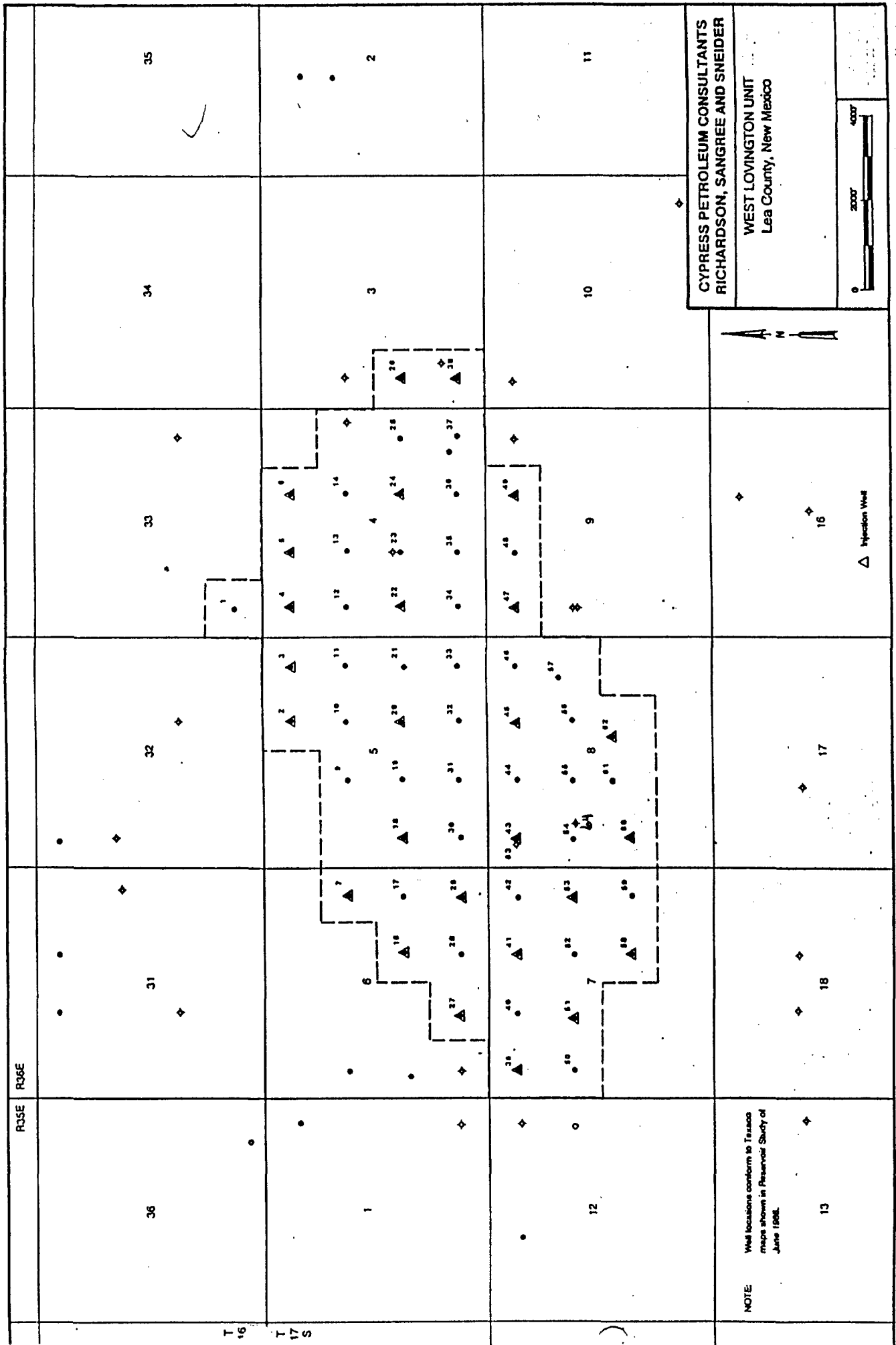
The #64 well was turned on to production

RR Dist: 01      Operator: GREENHILL  
 County: LEA      Field: LOV.SAN ANDRES,WEST  
 State: NEW MEXICO      Reservoir: SAN ANDRES  
 Well Count: 22      Lease: WEST LOVINGTON UNIT

1-1-88      208 BBLS /4408.939 MBBLs  
 IP/Cumul: 105 MCF /771.185 MMCF

---Oil---Gas---Water--- Inj      Last 6 Pts GOR/BPMM: 481.7/2075.84





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T 17 S

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NOTE: Well locations conform to Texas maps shown in Reservoir Study of June 1988.

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# GREENHILL PETROLEUM CORPORATION

16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX. (713) 870-1831

Incorporated in Delaware, U.S.A.

GREENHILL PETROLEUM CORPORATION  
WEST LOVINGTON UNIT  
C.A. #14-08-0001-7919  
LEA COUNTY, NEW MEXICO

1989 PLAN OF DEVELOPMENT

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1989 Activities

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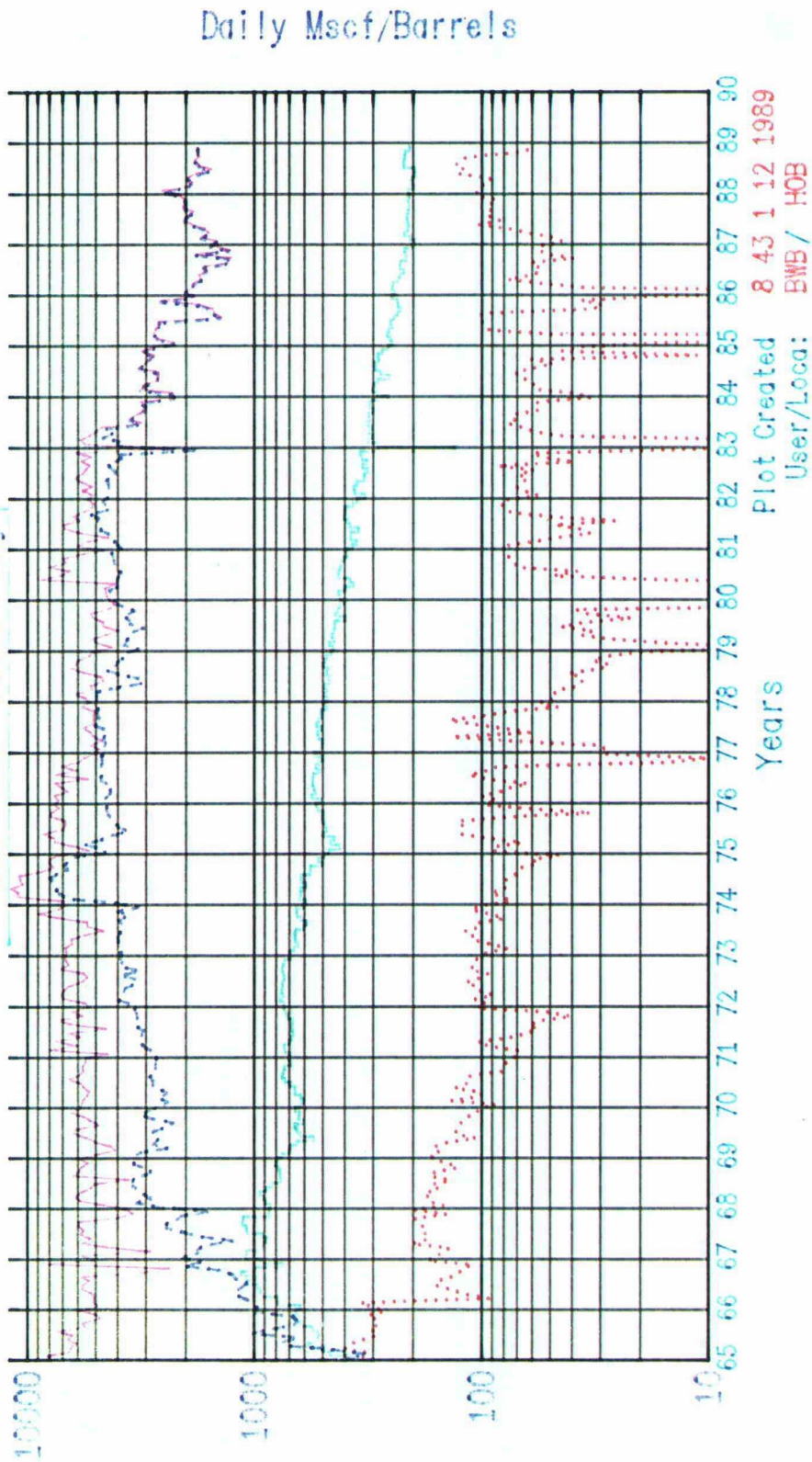
1988 Activities

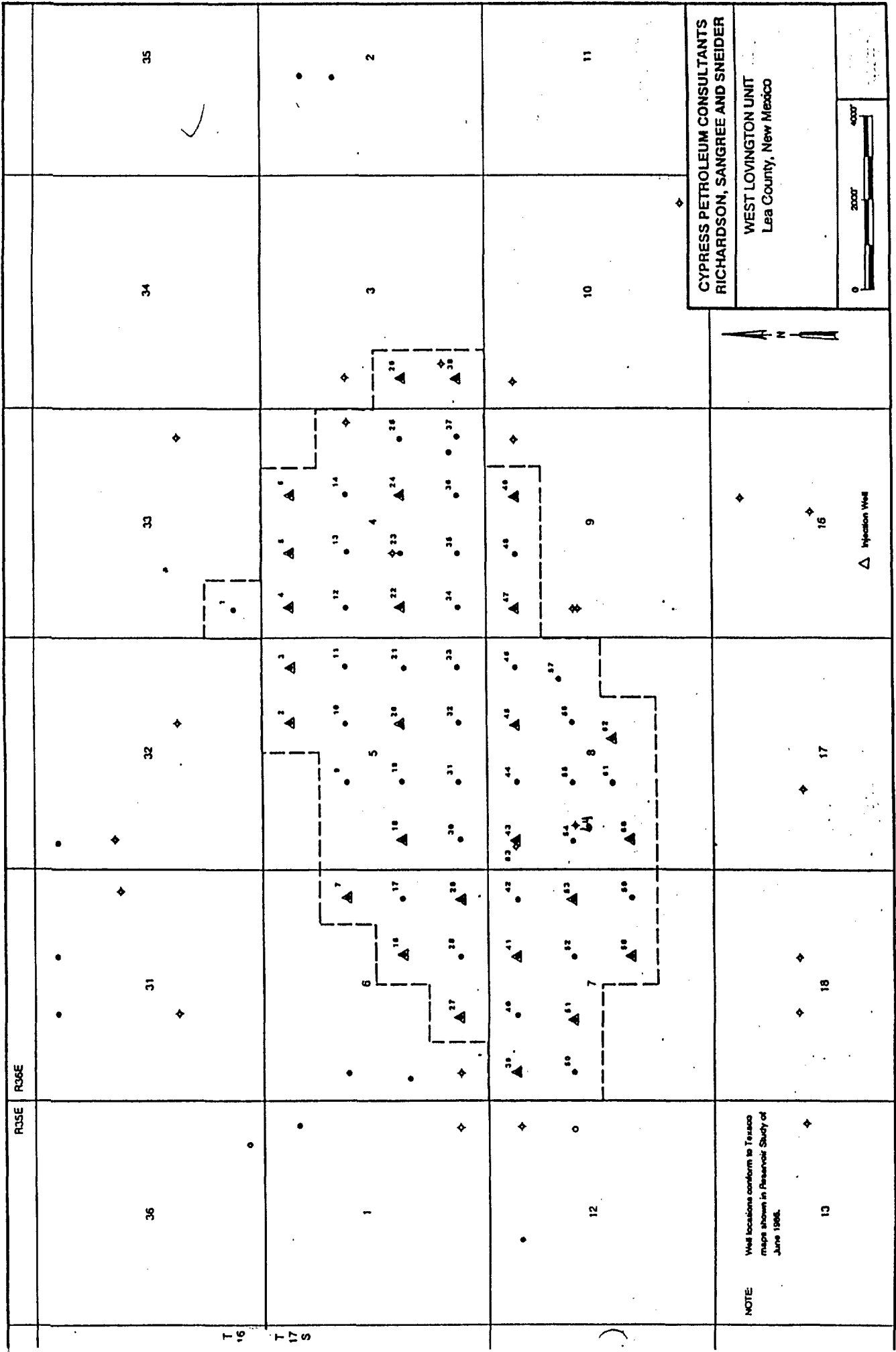
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 County: LEA      Field: LOV.SAN ANDRES,WEST  
 State: NEW MEXICO      Reservoir: SAN ANDRES  
 Well Count: 22      Lease: WEST LOVINGTON UNIT

1-1-88      208 BBLS /4408.939 MBBLs  
 IP/Cumul: 105 MCF /771.165 MMCF

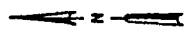
Last 6 Pts GOR/BPMM: 481.7/2075.84





CYPRESS PETROLEUM CONSULTANTS  
RICHARDSON, SANGREE AND SNEIDER

WEST LOVINGTON UNIT  
Lea County, New Mexico



NOTE: Well locations conform to Texas maps shown in Research Study of June 1966.

▲ Injection Well

T 16 S

T 17 S

R35E

R36E

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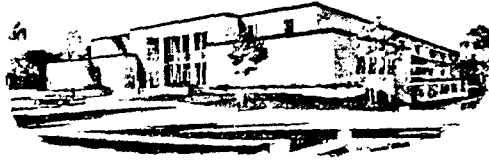
16

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State of New Mexico



W.R. HUMPHRIES  
COMMISSIONER

Commissioner of Public Lands

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

May 31, 1989

Greenhill Petroleum Corporation  
16010 Barker's Point Lane, Suite 325  
Houston, Texas 77079

ATTN: Gene Linton

RE: 1989 Plan of Development  
West Lovington Unit  
Lea County, New Mexico

Gentlemen:

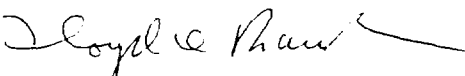
The Commissioner of Public Lands has this date approved the above captioned 1989 Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

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

Very truly yours,

W.R. HUMPHRIES  
COMMISSIONER OF PUBLIC LANDS

BY:

  
FLOYD O. PRANDO, Director  
Oil and Gas Division  
(505) 827-5749

cc: OCD - Santa Fe, New Mexico  
BLM  
Unit Correspondence File

WRH/FOP/SMH





# GREENHILL PETROLEUM CORPORATION

16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX. (713) 870-1831

Incorporated in Delaware, U.S.A.

March 29, 1989

#2385

Oil Conservation Division  
Attn: Roy Johnson  
P. O. Box 2088  
Sante Fe, New Mexico 87504-2088

Re: No. Benson Queen Unit  
Lovington San Andres Unit  
West Lovington Unit  
Lovington Paddock Unit  
Eunice Monument Unit  
Skaggs Grayburg Unit

Gentlemen:

Please find attached a designation of successor unit operator for the above referenced unit agreements. Also attached is a revised exhibit "B" showing current working interest owners and their ownership.

Please note that the No. Benson Queen, Lovington San Andres, West Lovington and Lovington Paddock Units include Federal, State and Fee lands. The successor forms have been sent to the Bureau of Land Management and the Commissioner of Public Lands. The Eunice Monument Unit has State and Fee lands and has been sent to the Commissioner of Public Lands. The Skaggs Grayburg Unit is all Fee lands. The C-104, Change of Operator forms, have been approved by the Hobbs and Artesia District offices.

If you have any questions or require additional information, please call me at (713) 870-0606.

Sincerely,

GREENHILL PETROLEUM CORPORATION

Gene Linton  
Production Coordinator

GL/tlc

Attachments

WEST LOVINGTON UNIT  
LEA COUNTY, NEW MEXICO  
 C.A. # 14-08-0001-7919

(3 working interest owners &  
 65% Approval Required)

Working Interest Owners

% of Unit Participation

Greenhill Petroleum Corporation 16010 Barker's Point Lane, Suite 325 Houston, Texas 77079	66.726724
Exxon Company, U.S.A. (3) Attn: Joint Interest Manager P. O. Box 1700 Midland, Texas 79702-1700	19.583560
Mary I. Johnson 14010 Hunter's Vale San Antonio, Texas 78230	.269442
Charles E. Johnson 3265 Bunker Hill Drive Colorado Springs, Colorado 80920	.134721
John Marshall Johnson 103 Elm Spring San Antonio, Texas 78231	.134722
Fred Turner, Jr. Estate c/o Mr. Lynn Durham, Trustee P. O. Box 910 Midland, Texas 79702	13.150831

Designation of successor Unit Operator West Lovington Unit Area, County of Lea, State of New Mexico. No. \_\_\_\_\_.

This indenture, dated as of the 29 day of December, 1988, by and between Greenhill Petroleum Corp., hereinafter designated as "First Party", and the owners of unitized working interests, hereinafter designated as "Second Parties."

Witnesseth: Whereas under the provisions of the Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, on the 1 day of May, 1961, approve a unit agreement West Lovington Unit Area, wherein Texaco Producing Inc. is designated as Unit Operator, and

Whereas said Texaco Producing Inc. has resigned as such Operator<sup>1</sup> and the designation of a successor Unit Operator is now required pursuant to the terms thereof; and

Whereas the First Party has been and hereby is designated by Second Parties as Unit Operator, and said First Party desires to assume all the rights, duties, and obligations of Unit Operator under the said unit agreement:

Now, therefore, in consideration of the premises hereinbefore set forth and the promises hereinafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all terms of the West Lovington unit agreement, and the Second Parties covenant and agree that, effective upon arrival of this indenture by the (Name and Title of authorized officer, BLM) First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said unit agreement; said unit agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said unit agreement were expressly set forth in this instrument.

In witness whereof, the parties hereto have executed this instrument as of the date hereinabove set forth.

Jeri G. Courter  
Beverly Vogt  
(Witnesses)

(Witnesses)  
Greenhill Petroleum Corp.

By: [Signature]  
(First Party)  
Texaco Producing Inc.  
By: [Signature]  
(Second Party)

APPROVED AS TO:  
Contract RRJ  
Terms MRM  
Form ASP

S. L. Chandler, Attorney-in-Fact

I hereby approve the foregoing indenture designating Greenhill Petroleum Corp. as Unit Operator under the unit agreement for the West Lovington Unit Area, this \_\_\_ day of \_\_\_\_\_, 19\_\_.

Authorized officer of the Bureau of Land Management

<sup>1</sup>Where the designation of a successor Unit Operator is required for any reason other than resignation, such reason shall be substituted for the one stated.



# GREENHILL PETROLEUM CORPORATION

16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX. (713) 870-1831

Incorporated in Delaware, U.S.A.

January 19, 1989

West Lovington Unit Working Interest Owners  
(Addressee List Attached)

Re: West Lovington Unit Sale Notification and Change  
of Operator

Gentlemen:

Effective November 1, 1988, Texaco Inc. ("Texaco") is selling all of its interests in and to the captioned property to Greenhill Petroleum Corporation ("Greenhill"), 16010 Barker's Point Lane, Suite 325, Houston, Texas 77079.

Greenhill is succeeding Texaco as the new Operator. If you approve of Greenhill as the successor Operator of the captioned Unit, please so signify by signing in the space provided below and returning a copy of this letter to the undersigned.

You will continue to receive billings from Texaco for costs incurred during the period from the November 1, 1988 effective date through December 29, 1988, the closing date. Costs incurred after the closing will be billed by Greenhill.

If you have any questions or comments, please feel free to call the undersigned at (713) 870-0606.

Yours very truly,

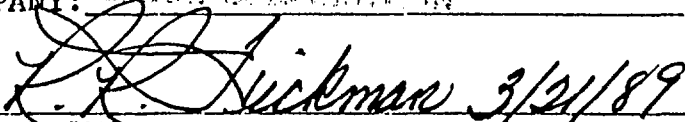
  
Gary E. Edwards  
Land Manager

GEE:89609bv

Enclosures

The undersigned hereby approves of Greenhill Petroleum Corporation becoming the successor Operator to Texaco as described above.

COMPANY: EXXON CORPORATION

By:  3/21/89  
Title: R.R. Hickman, Int. Int. Mer. Prod. Dept.  
EXXON CORPORATION, U.S.A. or its foreign affiliate  
DIV. LDMN. 1.7.  
DIV. GEOL. JSD  
DIV. ACCTG. M

FILE	DESTROY
------	---------

Gentlemen:

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# GREENHILL PETROLEUM CORPORATION

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HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX (713) 870-1831

Incorporated In Delaware, U.S.A.

January 19, 1989

West Lovington Unit Working Interest Owners  
(Addressee List Attached)

Re: West Lovington Unit Sale Notification and Change  
of Operator

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Yours very truly,

Gary E. Edwards  
Land Manager

GEE:89609bv

Enclosures

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COMPANY: EMXCOI CORPORATION

By: R.R. Hickman 3/21/89 DIV. LDNM. 1.7.  
Title: R.R. Hickman, Int. Int. Mer., Prod. Dept. DIV. GEOI. 850  
DIV. ACCO. M/



# GREENHILL PETROLEUM CORPORATION

Incorporated in Delaware, U.S.A.

PRODUCTION - ADMIN.  
HOUSTON REGION  
16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0600  
FAX (713) 870-1831

RWG	3.386
WGW	21.190
GLC	21.186
RHH	3.330
MRC	21.190
GFJ	21.100
SRW	21.102
CEP	3.306
SGH	3.356
GDH	3.362
MHI	3.310
WVH	3.366
IRWC	20.154
HPE	20.140
DRF	20.102
RWN	20.150
RAP	20.190
LJSE 10/21/80	
FILE	PROPERTY

January 19, 1989

West Lovington Unit Working Interest Owners  
(Addressee List Attached)

Re: West Lovington Unit Sale Notification and Change  
of Operator

Gentlemen:

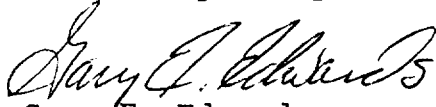
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Yours very truly,

  
Gary E. Edwards  
Land Manager

GEE:89609bv

Enclosures

The undersigned hereby approves of Greenhill Petroleum Corporation becoming the successor Operator to Texaco as described above.

COMPANY: Amoco Production Company

By:   
Title: Division Production Manager



# GREENHILL PETROLEUM CORPORATION

16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX. (713) 870-1831

Incorporated in Delaware, U.S.A.

January 19, 1989

West Lovington Unit Working Interest Owners  
(Addressee List Attached)

Re: West Lovington Unit Sale Notification and Change  
of Operator

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Yours very truly,

Gary E. Edwards  
Land Manager

GEE:89609bv

Enclosures

The undersigned hereby approves of Greenhill Petroleum Corporation becoming the successor Operator to Texaco as described above.

COMPANY: \_\_\_\_\_

By: *Nancy Inez Johnson*  
Title: \_\_\_\_\_



# GREENHILL PETROLEUM CORPORATION

16010 BARKER'S POINT LANE, SUITE 325  
HOUSTON, TEXAS 77079  
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January 19, 1989

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Yours very truly,

Gary E. Edwards  
Land Manager

GEE:89609bv

Enclosures

The undersigned hereby approves of Greenhill Petroleum Corporation becoming the successor Operator to Texaco as described above.

COMPANY:   
\_\_\_\_\_

By: \_\_\_\_\_  
Title: \_\_\_\_\_





# GREENHILL PETROLEUM CORPORATION

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HOUSTON, TEXAS 77079  
TELEPHONE (713) 870-0606  
FAX. (713) 870-1831

Incorporated in Delaware, U.S.A.

RECEIVED JAN 30 1989

January 19, 1989

West Lovington Unit Working Interest Owners  
(Addressee List Attached)

Re: West Lovington Unit Sale Notification and Change  
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Yours very truly,

Gary E. Edwards  
Land Manager

GEE:89609bv

Enclosures

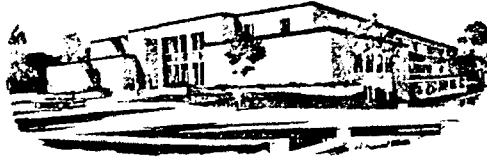
The undersigned hereby approves of Greenhill Petroleum Corporation becoming the successor Operator to Texaco as described above.

COMPANY: \_\_\_\_\_

By: \_\_\_\_\_  
Title: \_\_\_\_\_



W.R. HUMPHRIES  
COMMISSIONER



Commissioner of Public Lands

SLO REF NO OG-712

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

March 24, 1988

Texaco USA  
Attn: Mr. Joe E. King  
P. O. Box 728  
Hobbs, New Mexico 88240

Re: 1988 Plan of Development  
West Lovington 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



March 7, 1988

District Supervisor  
Bureau of Land Management  
Roswell District Office  
P. O. Box 1397  
Roswell, New Mexico 88201

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

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

All Working Interest Owners  
(Address List Attached)

RE: WEST LOVINGTON UNIT  
SECONDARY RECOVERY UNIT  
LEA COUNTY, NEW MEXICO

Gentlemen:

In accordance with the provisions set forth in Section 12 of the Unit Agreement, herewith is a report of past operations and a 1988 plan of development for the West Lovington Unit.

#### PAST OPERATIONS

The West Lovington Unit became effective on January 1, 1962. The unitized interval encompasses the San Andres formation. Water injection commenced during February of 1963. The initial injectors were set up in a peripheral injection pattern. Additional development included injection well conversions resulting in a five spot pattern encompassing the western third of the unit and alternating injectors within an interior row as seen on the attached plat. These additional injection well conversions were instated during May of 1969.

Cumulative oil production obtained from the unit since the unitization date to December 1, 1987 totals 4,672,407 barrels. A total of 47,725,038 barrels of water have been injected to December 1, 1987 as well. The average daily production obtained from the unit during the month of November, 1987 was 210 BOPD, 85 MCFD and 2022 BWPD.

Bureau of Land Management,  
Commissioner of Public Lands,  
New Mexico Oil Conservation  
Division, and Working  
Interest Owners

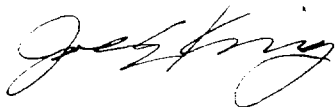
- 2 -

March 7, 1988

DEVELOPMENT PLANS FOR 1988

During 1988, it is planned to re-enter New Mexico "AH" State Well No. 13 to test the infill potential and lower San Andres production of the West Lovington Unit. The unit will also be evaluated for expansion to the Grayburg. Other plans for 1988 will constitute workovers for additional perforations, monitoring for efficient injection and monitoring for problems such as casing leaks.

Very truly yours,



FWS:jss

Attachments

WEST LOVINGTON UNIT  
LEA COUNTY, NEW MEXICO

Exxon Company, USA (3)  
Attn: Joint Interest Mgr.  
P. O. Box 1700  
Midland, Texas 79702-1700

Phillips Petroleum Co. (3)  
AFE Analyst  
P. O. Box 1967  
Houston, Texas 77001

Mobil Prod. TX & NM  
Attn: Joint Interest Mgr.  
P. O. Box 633  
Midland, Texas 79702-0633

Amoco Production Company  
Attn: Joint Operations  
P. O. Box 68  
Hobbs, New Mexico 88240

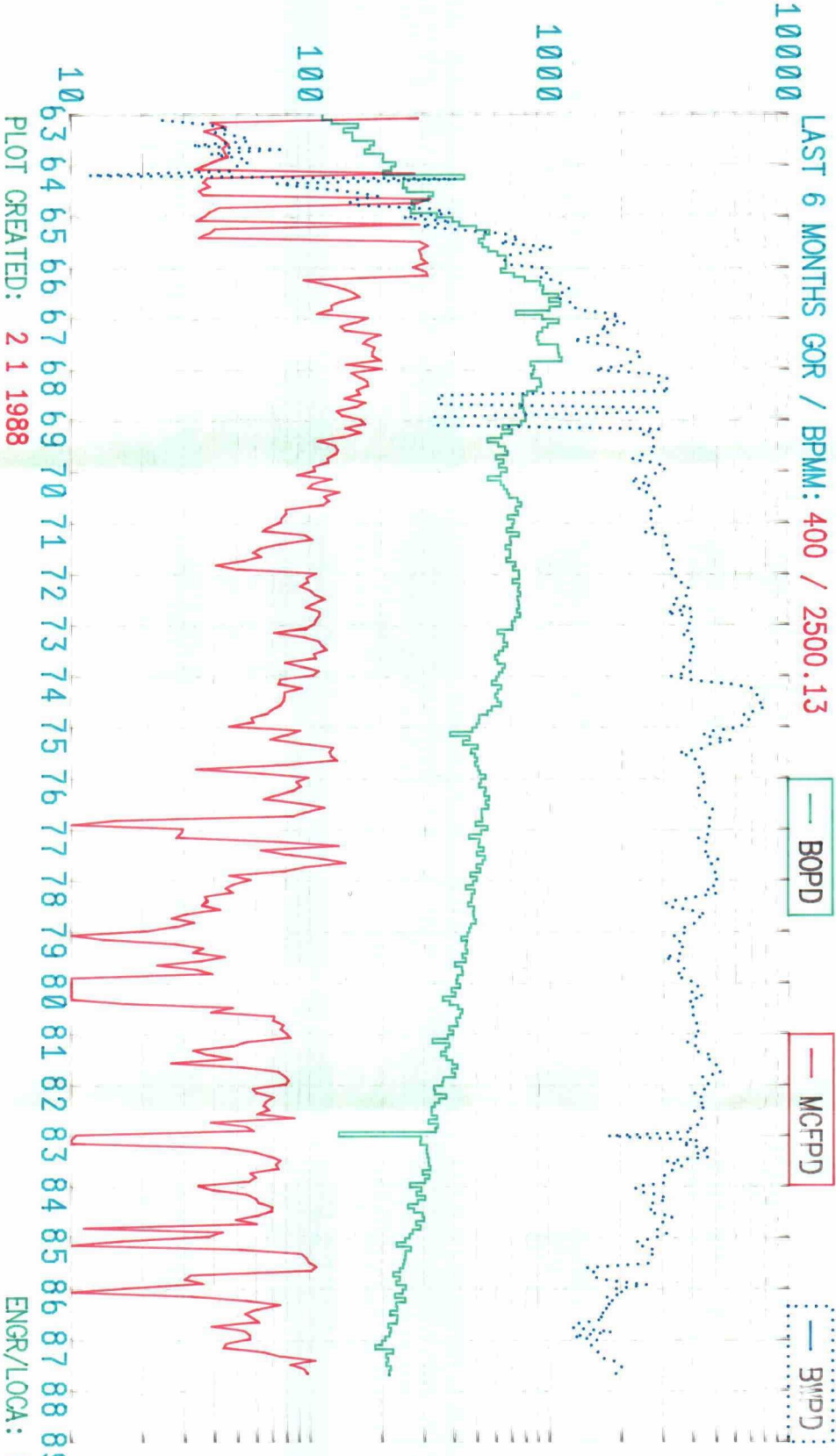
Amoco Production Company  
Attn: R. A. Sheppard  
P. O. Box 3092  
Houston, Texas 77253

Fred Turner, Jr., Estate  
c/o Lynn Durham, Trustee  
600 N. Marienfeld  
Midland, Texas 79701

Mary I. Johnson  
14010 Hunter's Vale  
San Antonio, Texas 78230

PROPERTY NAME: WEST LOVINGTON UNIT  
 FIELD NAME: LOVINGTON SAN ANDRES, WEST  
 OPERATOR NAME: TEXACO PRODUCING CO.  
 PRODUCING WELLS YTD: 23

LAST 6 MONTHS GOR / BPMM: 400 / 2500.13



1-1-87 CUMULATIVES:	1986 PRODUCTION:
OIL : 4537.458 MBBLs	OIL : 82447 BBLS
GAS : 766.733 MMCF	GAS : 18061 MCF
WAT : 26562.709 MBBLs	WAT : 598561 BBLS

PLOT CREATED: 21 1988

ENGR/LOCA: PWS / HBS

R-36-E

T I S

50

Tom Brown Dring.  
9,092'

Amoco (Stronell) 1-AC  
13,540'

State

(Pon American) Amoco  
Mobil "V"

State

Turner "D"

C.M. Graham, et al

State

Fred Turner, Jr.

Mobil "R"

Tenneco Turner  
C.M. 5087'  
CIT SERV

Shell State 1-A  
285'

Corpor 1-AJ  
10,803'

Amoco (Stronell) 1-V

Pen Am. 2-R  
8184'

Amoco 1-AU  
8,841'

Asles 1-R  
8,126'

Amarado  
CIT SERV  
1-AU  
8,841'

WEST LOVINGTON UNIT  
OPER.-TEXACO  
WEST LOVINGTON

5

4

7

8

9

Exxon "CL"

Exxon

Exxon

Exxon

Exxon

Exxon

Exxon

Exxon

J.A.

LEGEND:

● PRODUCING WELL

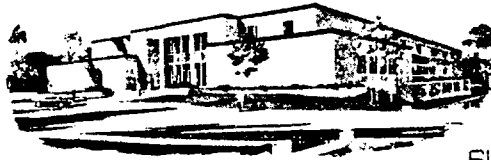
✈ INJECTION WELL

○ PROPOSED LOCATIONS

Turner, et al  
10  
:ON

TEXACO Inc.  
WEST LOVINGTON UNIT  
LOVINGTON (SAN ANDRES) WEST FIELD  
LEA COUNTY, NEW MEXICO  
Scale: 1" = 2000'

# State of New Mexico



SLO REF. NO. OG-405

W.R. HUMPHRIES  
COMMISSIONER

## Commissioner of Public Lands

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

September 3, 1987

Texaco Inc.  
Attention: Joe S. King  
P. O. Box 728  
Hobbs, New Mexico 88240

Re: West Lovington Unit  
1987 Plan of Development  
Lea County, New Mexico

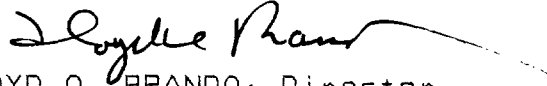
Gentlemen:

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

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

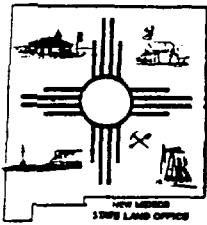
Very truly yours,

W. R. HUMPHRIES  
COMMISSIONER OF PUBLIC LANDS

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

WRH/FOP/ams  
enclosure  
cc: Bureau of Land Management  
Oil Conservation Division





State of New Mexico  
Commissioner of Public Lands

#2385

W. R. Humphries  
COMMISSIONER

Advisory Board

George Clark  
Chairman

Kristin Conniff  
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

April 24, 1990

Greenhill Petroleum Corporation  
12777 Jones Road, Suite 375  
Houston, Texas 77070

ATTN: Mr. Michael J. Newport

RE: West Lovington Unit  
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the West Lovington 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:

Handwritten signature of Floyd O. Prando in cursive.

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico

July 10, 1962

Texaco Incorporated  
P. O. Box 3109  
Midland, Texas

Attention: Mr. R. M. Banchoff

Gentlemen:

Your initial plan of operation dated June 25, 1962, covering the water supply, plant facilities, and injection pattern for the West Lovington unit area, Lea County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the plan are enclosed.

Very truly yours,

for JOHN A. ANDERSON

Copy to: Washington (w/cy of plan)  
Hobbs (w/cy of plan)  
Com. of Public Lands-Santa Fe (ltr. only)  
NMOCC-Santa Fe (ltr. only) ✓

July 6, 1962

Texaco, Inc.  
P. O. Box 3109  
Midland, Texas

Re: West Lovington Unit,  
Lea County, New Mexico  
Initial Plan of Operation

Attention: Mr. R. M. Bischoff

Gentlemen:

The Commissioner of Public Lands has approved as of July 9, 1962 your Initial Plan of Operation for the West Lovington Unit, Lea County, New Mexico. Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/e

BY:  
(MRS.) Marian M. Rhea, Supervisor  
Unit Division

encl:

cc: U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

June 29, 1962

Texaco Inc.  
P. O. Box 3109  
Midland, Texas

Attention: Mr. R. M. Bischoff

Gentlemen:

Reference is made to your Initial Plan of Operation, dated June 25, 1962, for the West Lovington Unit, Lea County, New Mexico.

This is to advise that the New Mexico Oil Conservation Commission has this date approved said plan, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

DSN/iqq

cc: U. S. Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

Encls: 2 copies of plan

# TEXACO INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT  
MIDLAND DIVISION



P. O. BOX 3109  
MIDLAND, TEXAS

R. M. BISCHOFF, ASSISTANT DIVISION MANAGER

Midland, Texas, June 25, 1962

WEST LOVINGTON UNIT  
LEA COUNTY, NEW MEXICO

Director (6)  
United States Geological Survey  
c/o Regional Oil & Gas Supervisor  
Roswell, New Mexico

Commissioner of Public Lands (3)  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission (3)  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

In compliance with Section 10 of the West Lovington Unit Agreement, Contract No. 14-08-0001-7919, effective January 1, 1962, Texaco Inc., as unit operator, hereby submits the initial plan of operation of this unit for your approval.

Activities Since January 1, 1962: On March 8, 1962, a water supply well was drilled to a total depth of 129 feet in the SE/4 of SE/4 of SE/4 of Section 36, T-16-S, R-35-E, Lea County, New Mexico. This well was located on a commercial water lease obtained by Texaco covering Section 36 prior to unitization. The test well bail tested approximately 10 gallons of water per minute which was inadequate. A second test well was drilled March 20th in the NW/4 of NW/4 of SE/4 of Section 36, T-16-S, R-35-E, to a total depth of 125 feet. This test well bailed dry and was plugged. Test well No. 1 was cleaned out to a total depth of 129 feet on April 8th and pumping equipment set on April 9th. The well was continuously pumped from April 9th through 15th and established a steady state capacity of 15 gallons per minute. These two test wells indicated that the water supply requirements for the West Lovington Unit could not be obtained from Section 36. An investigation using all available information was made to determine if the Santa Rosa

June 25, 1962

formation could be used as a source of water for the West Lovington Unit. This evaluation revealed that the Santa Rosa formation could not be depended upon as an adequate source of water. An emergency exploration permit was obtained from the State Engineer's office to commence drilling operations for water development on Sections 34 and 35, T-16-S, R-35-E, Lea County, New Mexico, On June 8, 1962. An administrative procedure was started at the same time to move the commercial water permits from Section 36 to Sections 34 and 35. This administrative procedure will require approximately 25 days to complete all required notices and if protests are not filed these permits will be valid. We are now in the process of evaluating the water supply potential in the S/2 of Section 35 and the E/2 of Section 34. The first test well was drilled at a location 660 feet from the west line and 100 feet from the south line of Section 35. On June 22, 1962, the well was tested with a bailer at a stabilized rate of 280 GPM. A second well will be drilled at a location 330 feet from the east line and 100 feet from the south line of Section 34. It appears that sufficient water will be obtained from Sections 34 and 35 to meet the requirements of the West Lovington Unit.

Future Action: Approximately 45 days will be required to construct the waterflood facilities after the water supply is established. It is planned to build a waterflood plant capable of injecting 10,000 barrels of water per day at 1400 psi and 7,000 barrels of water per day at 2,000 psi into the West Lovington Unit reservoir. A schematic drawing of the waterflood facilities is shown on the attached plat. A contract for the construction of facilities has been let but actual construction will be delayed until tests on the water supply are completed and water rights are finalized. The plat also shows that 18 wells on a nine-spot pattern are to be converted to injection. After a period of injection of approximately six to nine months, each injection well will be surveyed to determine distribution of the injected water within the reservoir. Appropriate remedial work will be performed where necessary to insure maximum recovery of secondary oil. It is anticipated that at least one of the four undeveloped locations will be developed during late 1963.

Texaco Inc.

JCJ:jh  
Attach.

By: *R. M. Bischoff*  
 R. M. Bischoff, Asst. Div. Manager

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
 Supervisor, United States Geological Survey

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
 Commissioner of Public Lands

APPROVED: *A. L. Porter* Date: *6/29/62*  
 Oil Conservation Commission

TEXACO  
INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT



2285  
P. O. BOX 3109  
MIDLAND, TEXAS

January 3, 1962

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr.

Gentlemen:

In compliance with Order No. R-2071 dated October 9, 1961, TEXACO Inc. as operator of the West Lovington Unit is hereby submitting an executed original copy of the Unit Agreement for the Development and Operation of the West Lovington Unit Area, Lea County, New Mexico.

The West Lovington Unit Agreement became effective at 12:01 a. m., January 1, 1962, and as of that date TEXACO Inc. assumed operation of the Unit. If additional information is desired concerning this matter, please do not hesitate to advise.

Yours very truly,

A handwritten signature in cursive script that reads "C. R. Black".

C. R. Black  
Assistant Division  
Proration Engineer

CRB-MM

Attach.

2385

November 30, 1961

**Texaco Inc.**  
**P. O. Box 3109**  
**Midland, Texas**

**Re: West Lovington Unit**  
**Lea County, New Mexico**

**Attention: Mr. B. E. Hellman**

**Gentlemen:**

The Commissioner of Public Lands approved as of November 28, 1961 the West Lovington Unit Agreement. Eight copies with Certificates of Approval were handed to Mr. Robinson and Mr. Bishoff.

I have requested a ratified copy of the Operating Agreement be furnished this office together with a completely conformed copy of the unit agreement at such time as the U. S. Geological Survey have approved this Unit.

We are enclosing Official Receipt No. F 69891 in the amount of \$40.00 which covers the filing fee.

Very truly yours,

**E.S. JOHNNY WALKER**  
**COMMISSIONER OF PUBLIC LANDS**

ESW/mmrv

Encl:

cc: Oil Conservation Commission  
Santa Fe, New Mexico

U. S. Geological Survey  
Roswell, New Mexico

COPY



GILBERT, WHITE AND GILBERT

ATTORNEYS AND COUNSELORS AT LAW

BISHOP BUILDING

SANTA FE, NEW MEXICO

CARL H. GILBERT  
L. C. WHITE  
WILLIAM W. GILBERT  
SUMNER S. KOCH  
WILLIAM B. KELLY

October 24, 1961

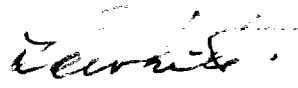
Mr. C. R. Black  
Texaco Inc.  
P. O. Box 3109  
Midland, Texas

Dear Mr. Black:

Enclosed please find letter which I received from the New Mexico Oil Conservation Commission in regard to the allowable provisions of Rule 701 as the same pertains to Order No. R-2071 entered in Case No. 2385—Texaco's West Lovington Unit San Andres Waterflood Project.

I assume the pertinent parts of the letter will be forwarded by you to your field men.

Very truly yours,



L. C. WHITE

LCW/ab  
Encl: 1  
c.c. Mr. Johnston S. Rowe  
Mr. A. L. Porter, Jr.

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

SYMBOLS

DL=Day Letter  
NL=Night Letter  
LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA158 SSG279

L HBA058 NL PD=HOBBS NMEX 19 =

1961 SEP 19 PM 3 44

NEW MEXICO OIL CONSERVATION COMMISSION=

YUCCA 22641 SANTA FE NMEX=

RE CASE 2358 EXAMINER HEARING ON SEPTEMBER 20 1961  
SOCONY MOBIL OIL COMPANY AS A PART INTEREST OWNER IN  
THE WEST LOVINGTON UNIT RECOMMENDS THAT THE UNIT AND  
FIELD WIDE WATER FLOOD PROGRAM AS PROPOSED BY TEXACO  
BE APPROVED BY THE COMMISSION=

C H SAMPLES PRODUCTION SUPT=:

*Case 2385*

=2358 20 1961

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

SYMBOLS

DL = Day Letter

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LA038 DB059

D MDA052 PD=MIDLAND TEX 18 1009A CST= 1961 SEP 18 AM 9 37

NEW MEXICO OIL CONSERVATION COMMISSION=

SANTA FE NMEX=

DEAR SIRS; TIDEWATER OIL COMPANY'S WISHES TO CONCUR IN  
TEXACO INC. APPLICATION CASE #2385 FOR APPROVAL OF THE  
WEST LOVINGTON AGREEMENT, AND TO INSTITUTE A POOL WIDE  
WATER FLOOD IN THE WEST LOVINGTON POOL THIS HEARING IS  
SCHEDULED FOR SEPT 20, 1961=

TIDEWATER OIL CO BY R H COE DISTRICT PRODUCTION MGR

*Handwritten signature*

==#2385 20 1961.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

SYMBOLS

DL = Day Letter

NL = Night Letter

LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA065 SSM105

1961 SEP 20 AM 11 22

L SNA046 PD=SANTAFE NMEX 20 1059A MST=

OIL CONSERVATION COMM CONFERENCE=

RM 9 STATE LAND OFFICE BLDG ATTN MR DANIEL NUTTER  
SANTA FE NEW MEXICO=.

IN REGARD TO CASE 2385 I DO HEREBY CONCUR WITH TEXACO  
INC TO CONVERT 18 WELLS TO INJECTION AND SEEK APPROVAL  
TO INITIATE FIELD WIDE FLOOD=

JOHN F MILLWEE REPRESENTATIVE FOR FRED TURNER JR.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

# PAN AMERICAN PETROLEUM CORPORATION

P. O. BOX 1410

FORT WORTH, TEXAS

PRODUCING DEPARTMENT  
BRUCE A. LANDIS, JR.  
DIVISION UNITIZATION  
SUPERINTENDENT

September 13, 1961

File: BAL-206-416

Subject: Proposed Unit -  
West Lovington Field,  
Lea County, New Mexico

*Case 2385*

Mr. A. L. Porter, Jr., Secretary-Director  
New Mexico Oil Conservation Commission  
Box 871  
Santa Fe, New Mexico

Dear Sir:

TEXACO Inc. has requested a hearing which has been scheduled for September 20, 1961, as Case No. 2385, seeking approval of the proposed West Lovington Unit, approval to initiate a field-wide waterflood, and approval to convert 18 wells to injection.

In the interest of conservation of petroleum resources, Pan American Petroleum Corporation, an interested party, supports TEXACO in its application and urges approval of the West Lovington Unit and the waterflood project proposed for the unit.

Very truly yours,

*Bruce A. Landis, Jr.*

LLM/ek

CC: TEXACO Inc.  
P. O. Box 3109  
Midland, Texas  
Attn: Mr. J. M. Williams

GILBERT, WHITE AND GILBERT  
ATTORNEYS AND COUNSELORS AT LAW  
BISHOP BUILDING  
SANTA FE, NEW MEXICO

*23.5.5*

CARL H. GILBERT  
L. C. WHITE  
WILLIAM W. GILBERT  
SUMNER S. KOCH  
WILLIAM B. KELLY

August 31, 1961

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Attention: Ida Rodriguez

Gentlemen:

Enclosed in triplicate is Texaco's request for a hearing to consider the following:

1. Approval of the West Lovington Unit Agreement.
2. Approval to initiate waterflooding activities in the West Lovington Field.
3. Approval to convert 18 wells to injection to form an inverted nine-spot pattern on a field-wide basis.

This application will set a precedent before the Commission, in that it is apparently the first request to initiate waterflooding activities on a pool-wide basis rather than starting with a pilot.

It would be appreciated if an early hearing date could be obtained.

Very truly yours,

*L. C. White*  
L. C. WHITE

LCW/ab  
Encls.

*Accepted  
M. J. ...  
9/15/61*

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

October 19, 1961

Gilbert & White & Gilbert  
P. O. Box 787  
Santa Fe, New Mexico

Attention: Mr. L. C. White

Gentlemen:

Reference is made to Commission Order No. R-2071, entered in Case No. 2385, approving Texaco's West Lovington Unit San Andres Waterflood Project.

According to our calculations, when all of the proposed producing wells have been completed, and when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 2604 barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate District proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

COPY

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

-2-

October 19, 1961

Gilbert & White & Gilbert  
P. O. Box 787  
Santa Fe, New Mexico

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/DSM/esr

cc: Mr. J. D. Ramey  
Oil Conservation Commission  
P. O. Box 2045  
Hobbs, New Mexico

Mr. J. E. Kapteina  
Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

C  
O  
P  
Y



GOVERNOR  
EDWIN L. MECHEM  
CHAIRMAN

State of New Mexico  
Oil Conservation Commission

LAND COMMISSIONER  
E. S. JOHNNY WALKER  
MEMBER

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

P. O. BOX 871  
SANTA FE

October 9, 1961

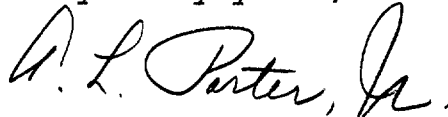
Mr. Charlie White  
Gilbert, White & Gilbert  
P. O. Box 787  
Santa Fe, New Mexico

Re: Case No. 2385  
Order No. R-2071  
Applicant:  
Texaco Inc.

Dear Sir:

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

Very truly yours,



A. L. PORTER, Jr.  
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC   x  

Artesia OCC           

Aztec OCC           

OTHER   Mr. Howard Bratton (Humble)  

  Mr. Carl Jones (Phillips) - Midland, Texas

TEXACO  
INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT  
MIDLAND DIVISION



P. O. BOX 3109  
MIDLAND, TEXAS

*Case 2385*

August 29, 1961

Mr. A. L. Porter (3)  
Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Mr. Porter:

TEXACO Inc. as the initial operator of the proposed West Lovington Unit, West Lovington Field, Lea County, New Mexico, respectfully requests that a hearing be scheduled before the New Mexico Oil Conservation Commission to consider its application for (1) approval of the West Lovington Unit Agreement; (2) approval to initiate waterflooding activities in the West Lovington Field; and (3) approval to convert 18 wells to injection to form an inverted nine-spot pattern on a field-wide basis.

In support of our application, we wish to state the following facts:

1. The West Lovington Field was discovered in 1944 with production being obtained from the San Andres formation at an approximate depth of 4750 feet.

2. Of fifty-nine producing wells drilled in the West Lovington Field, fifty-eight are currently on production.

3. The area sought to be designated as the West Lovington Unit Area comprises 2,472.21 acres situated in Lea County, New Mexico, and which is more particularly described as follows:

Township 16 South, Range 36 East  
New Mexico Principal Meridian  
Sec. 33: SW/4 SW/4

Township 17 South, Range 36 East  
New Mexico Principal Meridian

Sec. 3: W/2 SW/4  
Sec. 4: Lots 2, 3, 4, S/2 N/2, S/2  
Sec. 5: Lots 1, 2, S/2 N/2, S/2

Sec. 6: SE/4 NE/4, SE/4 SW/4, SE/4  
Sec. 7: Lots 1, 2, E/2 NW/4, NE/4, N/2 SE/4  
Sec. 8: N/2, N/2 SW/4, NW/4 SE/4  
Sec. 9: N/2 NW/4, NW/4 NE/4

4. To provide for maximum efficiency and maximum ultimate secondary recovery, a proposal will be made to start initial waterflood operations on a field-wide basis.

5. The proposed pattern will be an inverted nine-spot and will consist of 18 injection wells.

6. The proposed producing wells to be converted to injection wells are as follows:

<u>Company</u>	<u>Lease and Well No.</u>	<u>Unit</u>	<u>S.T.R.</u>
Humble	State "P" #2	B	9-17-36
Humble	State "P" #3	D	9-17-36
Humble	State "Q" #2	B	8-17-36
Humble	State "T" #1	L	8-17-36
Humble	State "W" #1	J	7-17-36
Pan American	State "E" -20 #13	J	4-17-36
Phillips	Mexico #2	B	5-17-36
Rodman Noel	State "B" #2	L	4-17-36
Rodman Noel	State "B" #5	L	3-17-36
Mobil	State "R" #6	B	4-17-36
Mobil	State "R" #9	J	5-17-36
TEXACO	State "AH" #3	D	8-17-36
TEXACO	State "AH" #6	B	7-17-36
TEXACO	State "AH" #12	J	6-17-36
TEXACO	State "AJ" #4	D	7-17-36
TEXACO	State N. M. "CL" #1	J	8-17-36
Tidewater	State "O" #2	L	5-17-36
Turner	State "C" #5	D	4-17-36

Attached, in triplicate, is a plat of the West Lovington Field. The boundary of the proposed West Lovington Unit Area is shown by the hatched lines. The proposed injection wells are circled in red.

It is respectfully requested that the subject applications be set on the first available docket.

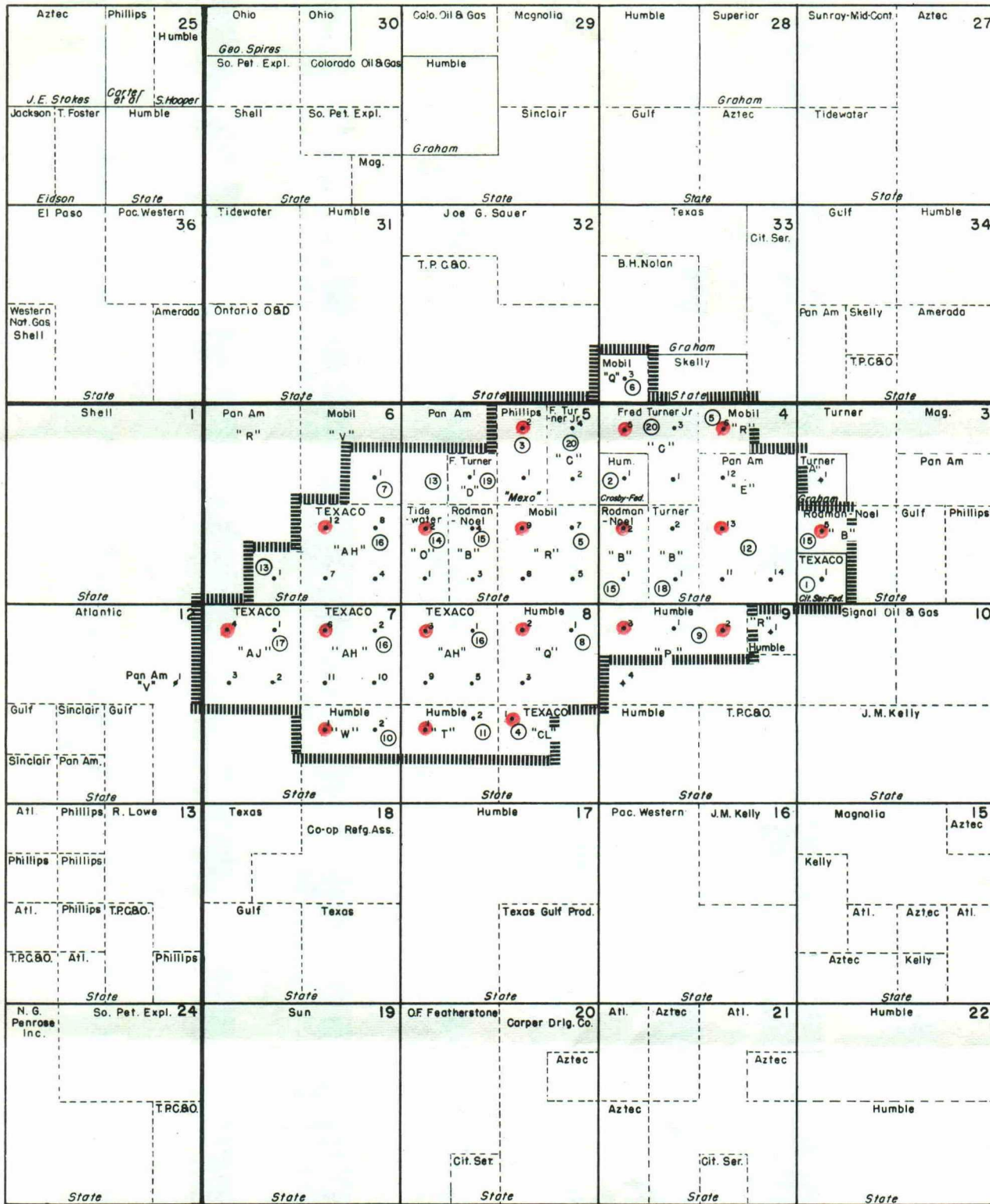
Yours very truly,

  
J. E. Robinson, Jr.

Division Proration Engineer

JER, Jr. -MAB

Attachments



T 16 S

T 17 S

**FEDERAL LEASES**

NM-020491  
LC- 062383

**STATE LEASES**

B-8197 B-9042  
B-3009 B-1553  
E-620 B-10639  
B-2894 B-4119  
B-4704 B-4120-1  
B-7016 B-4287-1  
B-8291 B-4286

**EXHIBIT "A"**

**WEST LOVINGTON UNIT AREA  
LEA COUNTY NEW MEXICO**

- PROPOSED INJECTION WELL
- PRODUCING OIL WELL
- ABANDONED PRODUCING WELL
- ✕ DRY HOLE

SCALE  
0 2000 4000



**LEGEND**

- ▬▬▬▬▬▬▬▬▬▬▬▬ Unit Boundary
- ⑬----- Tract Number

*Case 2385*

Case 2385

August 29, 1961

Mr. A. L. Porter (3)  
Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Mr. Porter:

TEXACO Inc. as the initial operator of the proposed West Lovington Unit, West Lovington Field, Lea County, New Mexico, respectfully requests that a hearing be scheduled before the New Mexico Oil Conservation Commission to consider its application for (1) approval of the West Lovington Unit Agreement; (2) approval to initiate waterflooding activities in the West Lovington Field; and (3) approval to convert 18 wells to injection to form an inverted nine-spot pattern on a field-wide basis.

In support of our application, we wish to state the following facts:

1. The West Lovington Field was discovered in 1944 with production being obtained from the San Andres formation at an approximate depth of 4750 feet.
2. Of fifty-nine producing wells drilled in the West Lovington Field, fifty-eight are currently on production.
3. The area sought to be designated as the West Lovington Unit Area comprises 2,472.21 acres situated in Lea County, New Mexico, and which is more particularly described as follows:

Township 16 South, Range 36 East  
New Mexico Principal Meridian  
Sec. 33: SW/4 SW/4

Township 17 South, Range 36 East  
New Mexico Principal Meridian

Sec. 3: W/2 SW/4  
Sec. 4: Lots 2, 3, 4, S/2 N/2, S/2  
Sec. 5: Lots 1, 2, S/2 N/2, S/2

Sec. 6: SE/4 NE/4, SE/4 SW/4, SE/4  
Sec. 7: Lots 1, 2, E/2 NW/4, NE/4, N/2 SE/4  
Sec. 8: N/2, N/2 SW/4, NW/4 SE/4  
Sec. 9: N/2 NW/4, NW/4 NE/4

4. To provide for maximum efficiency and maximum ultimate secondary recovery, a proposal will be made to start initial waterflood operations on a field-wide basis.

5. The proposed pattern will be an inverted nine-spot and will consist of 18 injection wells.

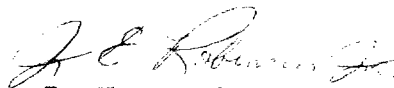
6. The proposed producing wells to be converted to injection wells are as follows:

<u>Company</u>	<u>Lease and Well No.</u>	<u>Unit</u>	<u>S.T.R.</u>
Humble	State "P" #2	B	9-17-36
Humble	State "P" #3	D	9-17-36
Humble	State "Q" #2	B	8-17-36
Humble	State "T" #1	L	8-17-36
Humble	State "W" #1	J	7-17-36
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Phillips	Mexico #2	B	5-17-36
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Rodman Noel	State "B" #5	L	3-17-36
Mobil	State "R" #6	B	4-17-36
Mobil	State "R" #9	J	5-17-36
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TEXACO	State "AH" #6	B	7-17-36
TEXACO	State "AH" #12	J	6-17-36
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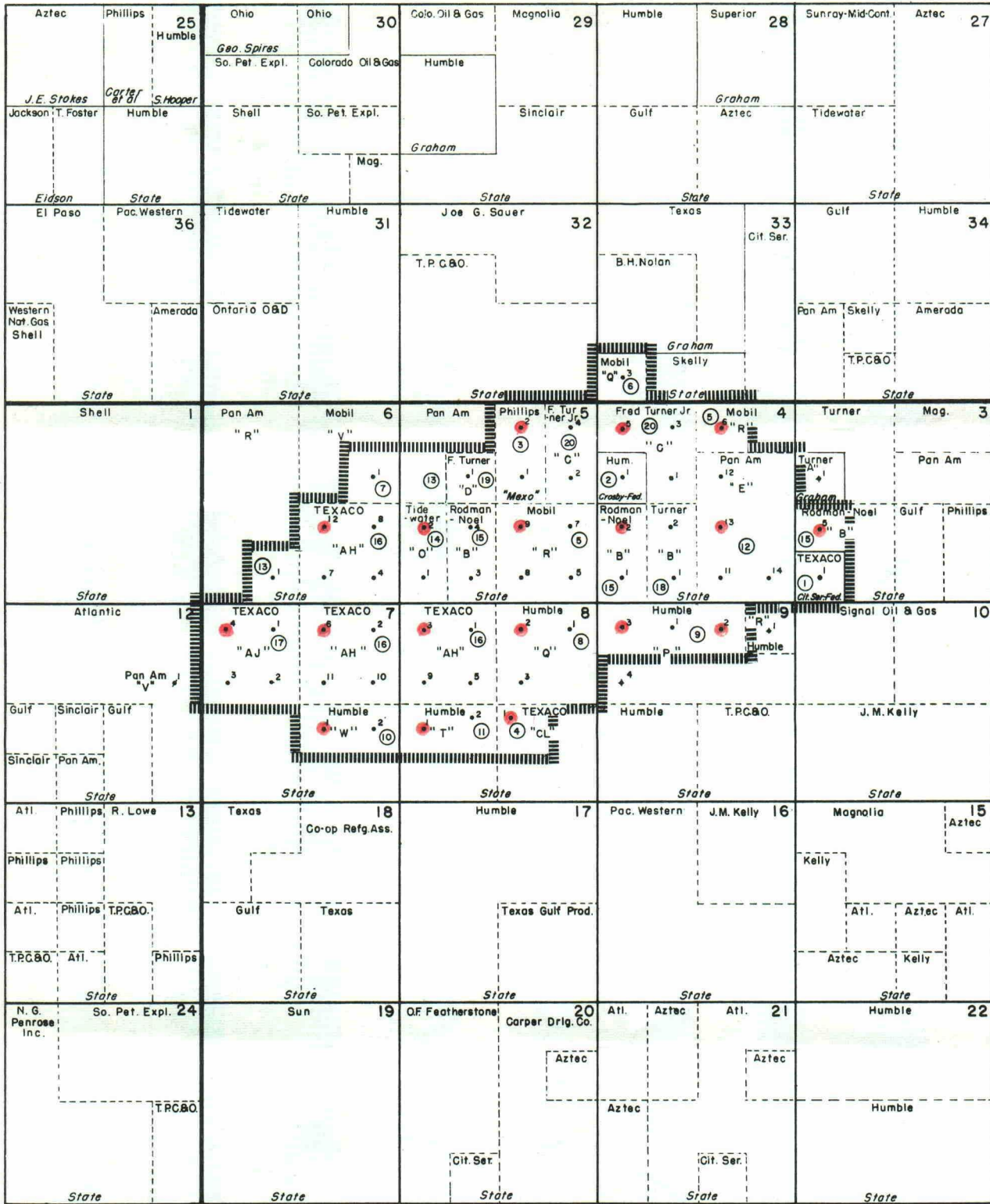


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LEA COUNTY NEW MEXICO**

**LEGEND**

- PROPOSED INJECTION WELL
- PRODUCING OIL WELL
- ABANDONED PRODUCING WELL
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Unit Boundary  
Tract Number

Page 2385

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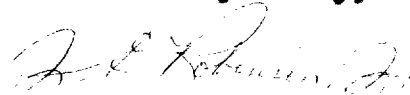
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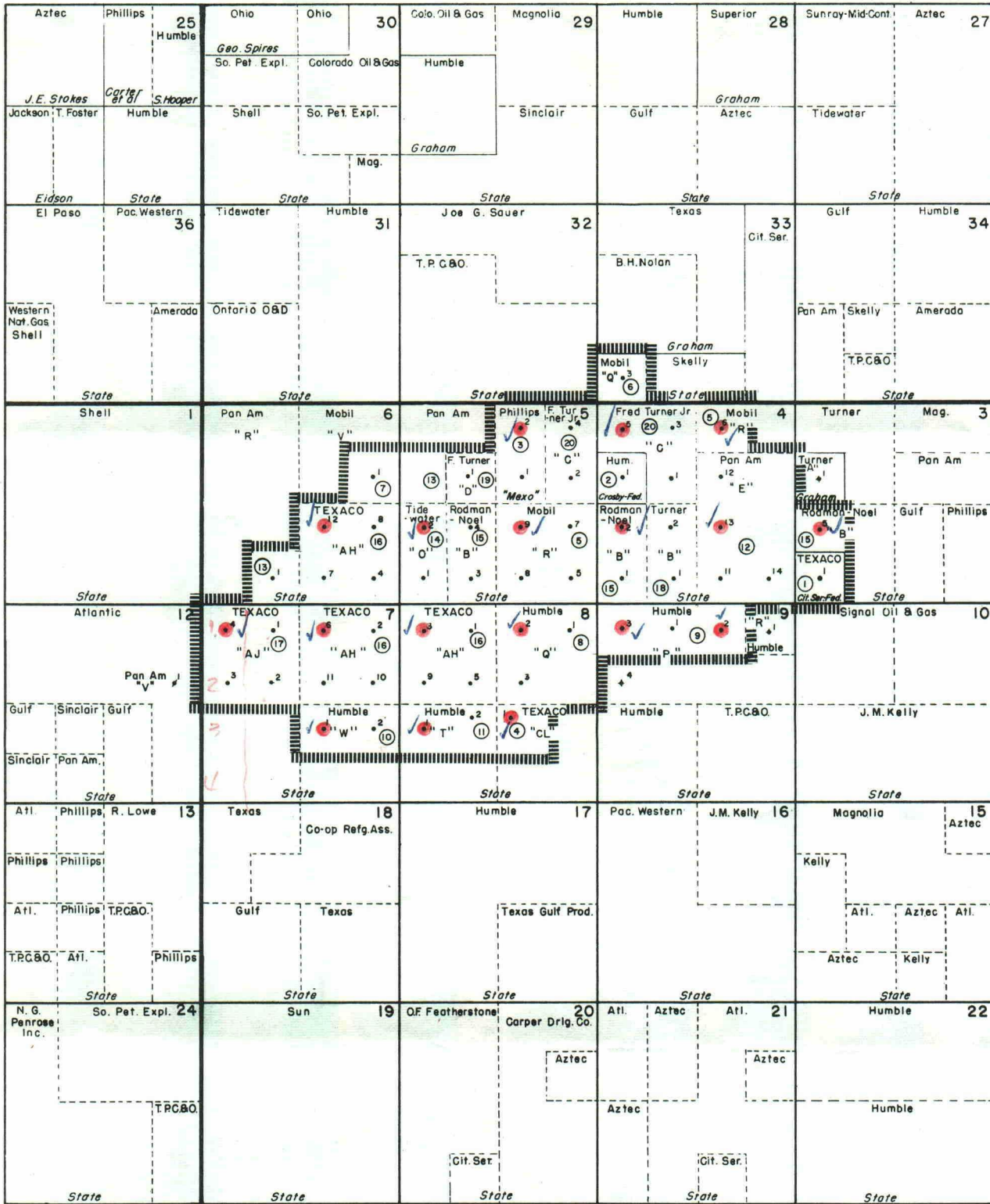
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FEDERAL LEASES

EXHIBIT "A"

LEGEND

NM-020491  
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WEST LOVINGTON UNIT AREA  
LEA COUNTY NEW MEXICO

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