#### STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

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

August 25, 1992

CAMBELL, CARR, BERGE & SHERIDAN
Attorneys at Law
P. O. Box 2208
Santa Fe, New Mexico 87504

RE:

CASE NO. 10515

ORDER NO. R-9710

Dear Sir:

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

Sincerely,

Florene Davidson

House'

OC Staff Specialist

FD/sl

cc:

**BLM** Carlsbad Office

T. Kellahin

# CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY
PATRICIA A MATTHEWS
MICHAEL H. FELDEWERT

JACK M. CAMPBELL

OF COUNSEL

JEFFERSON PLACE
SUITE I - 110 NORTH GUADALUPE
POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE. (505) 988-4421

TELECOPIER (505) 983-6043

August 27, 1992

# **HAND-DELIVERED**

RECEIVED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

AUG 2 7 1992

OIL CONSERVATION DIV. SANTA FE

Case 10515

Re: In the Matter of the Application of Texaco Exploration and Production Inc. for Statutory Unitization, Lea County, New Mexico

Dear Mr. LeMay:

On August 25, 1992 the Division entered Order No. R-9710 approving the application of Texaco Exploration and Production Inc. for statutory unitization of the Vacuum Glorieta West Unit Area. This letter is to advise you that sufficient ratifications have been obtained to make this unit effective September 1, 1992.

Enclosed for your files are copies of ratifications from the owners of more than 75% of the working interest in the unit area and the Commissioner of Public Lands final approval of the unit area thereby committing in excess of 99% of the royalty interest to this unit. Also enclosed is a Certificate of Effectiveness which we would appreciate you signing for the Division. It is our intention to file this Certificate in the records of Lea County, New Mexico on August 28, 1992.

Your attention to this request is appreciated.

Very truly yours,

WILLIAM F. CARR

WFC:mlh Enclosures



# State of New Mexico

OFFICE OF THE

# Commissioner of Public Lands

JIM BACA COMMISSIONER

Santa Te

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

August 27, 1992

Campbell, Carr, Berge & Sheridan, P. A. P. O. Box 2208
Santa Fe, New Mexico 87504-2208

Attn: Mr. William F. Carr

Re: Final Approval

Vacuum Glorieta West Unit Lea County, New Mexico

Dear Mr. Carr:

This office is in receipt of your letter of August 27, 1992 requesting final approval of the Vacuum Glorieta West Unit. Attached with your letter is a copy of the New Mexico Oil Conservation Division's Statutory Unitization Order No. R-9710 entered on August 25, 1992 in Case No. 10515. Under this order all tracts within the proposed unit boundary will be committed to the unit.

Please be advised that the Commissioner of Public Lands has this date granted final approval to the Vacuum Glorieta West Unit, Lea County, New Mexico and your Initial Plan of Operation.

Our approval is subject to the New Mexico Oil Conservation Division approving your waterflood project and a stipulation, to be made a part hereof, requiring the Unit Operator, within three years following the effective date of the Vacuum Glorieta West Unit, to submit for the Commissioner's review the fresh water requirements for this unit.

Enclosed are Five (5) Certificates of Approval.

Your filing fee in the amount of Three Hundred Dollars (\$300.00) has been received.

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: Dord of Vhur FLOYD O. PRANDO, Director

Oil/Gas and Minerals Division Men Men

(505) 827-5744

JB/FOP/pm OCD-Santa Fe TRD-Santa Fe

# NEW MEXICO STATE LAND OFFICE

#### CERTIFICATE OF APPROVAL

# COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

TEXACO EXPLORATION AND PRODUCTION INC.
VACUUM GLORIETA WEST UNIT
LEA COUNTY, NEW MEXICO

There having been presented to the undersigned Commissioner of Public Lands of the State on New Mexico for examination, a Unit Agreement for the development and operation of acreage which is described within the referenced Agreement, dated June 1, 1992, which said Agreement has been executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, do hereby consent to and approve the said Agreement, however, such consent and approval being limited and restricted to such lands within the Unit Area, which are effectively committed to the Unit Agreement as of this date, and further, that leases insofar as the lands covered thereby committed to this Unit Agreement shall be and the same are hereby amended to conform with the terms of such Unit Agreement, and said leases shall remain in full force and effect in accordance with the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 27th day of August, 1992.

COMMISSIONER OF PUBLIC LANDS
of the State of New Mexico

# RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED UNIT AGREEMENT AND UNIT OPERATING AGREEMENT VACUUM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO

KNOW ALL PERSONS BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of a royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement, dated June 1, 1992, entitled "Unit Agreement For the Development and Operation of the Vacuum Glorieta West Unit Area, Lea County, New Mexico", which agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, each of the undersigned owners of a working interest or interests hereby acknowledges receipt of a true and correct copy of said Unit Agreement, and a true and correct copy of that certain agreement, dated June 1, 1992, entitled "Unit Operating Agreement, Vacuum Glorieta West Unit Area, Lea County, New Mexico", which agreement is hereinafter referred to as the Unit Operating Agreement; and

WHEREAS, Exhibits "A", "B" and "C", attached to and made a part of said Unit Agreement, identify the separately owned tracts which will become a part of the Unit; and

WHEREAS, each of the undersigned represents that it is a Royalty Owner or Working Interest Owner, or both, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Royalty Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and each undersigned Working Interest Owner, being familiar with the contents thereof, desires to ratify, confirm and join said Unit Agreement and said Unit Operating Agreement.

NOW, THEREFORE, each of the undersigned who is the owner of a royalty interest or interests only does hereby ratify and confirm said Unit Agreement, and each of the undersigned who is the owner of a working interest or interests only or the owner of both a working interest or interests or royalty interest or interests does hereby ratify, confirm and join said Unit Agreement and said Unit Operating Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto. This instrument shall be binding upon the undersigned, its successors and assigns.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth opposite its signature.

DATE:	August 26, 1992	COMPANY	TEXACO EXPLORATION AND PRODUCTION INC.
		BY:	Dean A. Bears
		TITLE:	Attorney-in-Fact

STATE OF TEXAS }	
COUNTY OF MIDLAND }	
This instrument was acknowle	edged before me this 26th day of
, 1992, by	Dean A. Bears , as Attorney-
in-Fact of Texaco Exploration and	l Production Inc., a Delaware
corporation, on behalf of said co	orporation.
	,
	MM - 4 Donelson
MARY F. DONELSON	Notary Public in and for the
Notary Public, State of Texas  My Commission expires 05/09/95	State of
View .	Print Name: MARY F. DONELSON
My Commission Expires:	
And land	
05/09/95	

# RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED UNIT AGREEMENT AND UNIT OPERATING AGREEMENT VACUUM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO

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NOW, THEREFORE, each of the undersigned who is the owner of a royalty interest or interests only does hereby ratify and confirm said Unit Agreement, and each of the undersigned who is the owner of a working interest or interests only or the owner of both a working interest or interests or royalty interest or interests does hereby ratify, confirm and join said Unit Agreement and said Unit Operating Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto. This instrument shall be binding upon the undersigned, its successors and assigns.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth opposite its signature.  $\[ \]$ 

DATE: August 24, 1992 COMPANY: PHILLIPS PETROLEUM COMPANY

BY: J.E. CARLTON

Attorney-In-Fact

STATE OFTEXAS}	
COUNTY OF ECTOR }	
August , 1992, by J.  Attorney-in-Fact of PHILLIPS PI	dged before me this 24th day of  E. Carlton , as  ETROLEUM COMPANY , a  f of said corporation.
MARIANNE McEWIN Notary Public State of Texas My Comm. Exp. 1-16-95	Mayane M Ewin  Notary Public in and for the State of Texas  Print Name: Marianne McEwin
My Commission Expires:	
1-16-95	

# RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED UNIT AGREEMENT AND UNIT OPERATING AGREEMENT VACUUM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO

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WHEREAS, each of the undersigned represents that it is a Royalty Owner or Working Interest Owner, or both, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

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NOW, THEREFORE, each of the undersigned who is the owner of a royalty interest or interests only does hereby ratify and confirm said Unit Agreement, and each of the undersigned who is the owner of a working interest or interests only or the owner of both a working interest or interests or royalty interest or interests does hereby ratify, confirm and join said Unit Agreement and said Unit Operating Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto. This instrument shall be binding upon the undersigned, its successors and assigns.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth opposite its signature.

DATE: 8/26/92

COMPANY: CONOCO INC.

BY: Brask& Mosling W TITLE: AMBRAKY-IN-FACT

STATE OF IEXAS } COUNTY OF MIDIANO }	
This instrument was acknowle	edged before me this $\frac{2677}{26}$ day of
MAST , 1992, by M.	ARK K. Mosley, as
AMPRICE TO LONGO INC	ark K. Mosley, as c., a Dolmare corporation,
on behalf of said corporation.	
DEBBIE ROBERTS  Notary Public, State of Texas  My Commission Expires 5-22-96	Notary Public in and for the State of
My Commission Expires:	
5-22-96	

# RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED UNIT AGREEMENT AND UNIT OPERATING AGREEMENT VACUUM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO

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IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth opposite its signature.

DATE:	August 26, 1992	COMPANY:	MOBIL PRODUCING TEXAS & NEW ME	EXICO	INC
		BY:	M. R. WHITE	OJK.	
		TITLE:	ATTORNEY-IN-FACT		

STATE OF	1 EAAS	_ }
COUNTY OF	MIDLAND	_ }
0	4	as acknowledged before me this 26th day of 92, by M. R. WHITE , as
ATTORNEY-IN-	FACT of _	MOBIL PRODUCING TEXAS & NEW MEXICO INC. , pration, on behalf of said corporation.
		Thena L. Bullion Notary Public in and for the
*	THENA L. BULLION MY COMMISSION EXPIRES October 14, 1992	State of Print Name:
My Commiss	sion Expires:	

# VACUUM GLORIETA WEST UNIT LEA COUNTY, NEW MEXICO

## **CERTIFICATE OF EFFECTIVENESS**

The Oil Conservation Division of the Energy, Minerals and Natural Resources

Department, State of New Mexico, hereby certifies as follows:

- 1. In accordance with the provisions of the New Mexico Statutory Unitization Act (N.M.Stat.Ann. § 70-7-1 through 70-7-21 (1978)), the Oil Conservation Division entered Order No. R-9710 dated August 25, 1992, which granted the application of Texaco Exploration and Production Inc. for statutory unitization of the Vacuum Glorieta West Unit Area comprised of 2,778.86 acres, more or less, of State and Fee lands, in the Vacuum-Glorieta Pool, Lea County, new Mexico.
- 2. Order No. R-9710 provides that statutory unitization of the Vacuum Glorieta West Unit will become effective upon approval of the plan for unit operations by owners of seventy-five percent (75%) of the working interest and seventy-five (75%) of the royalty interest in the proposed unit area.
- 3. Texaco Exploration and Production Inc., operator of the Vacuum Glorieta West Unit, has provided the Division with documentation which verifies that the persons owning the required percentages of working interest and royalty interest in the Vacuum Glorieta West Unit Area have ratified and approved the plan for unit operations in accordance with the rules and regulations of the Division and Order No. R-9710.
- 4. Accordingly, Division Order No. R-9710 is now in full force and effect and the unit agreement and unit operating agreement for the Vacuum Glorieta West Unit shall become effective as of September 1, 1992 at 7:00 a.m. Mountain Standard Time for the

area known as the Vacuum Glorieta West Unit Area.

5. The horizontal limits of this unit area shall be comprised of the following described State and Fee lands in Lea County, New Mexico:

# TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 24: SW/4; SW/4 NW/4; SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4; N/2 SE/4; SE/4 SE/4

Section 36: All

# TOWNSHIP 17 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 30: Lots 1, 2, 3, 4 (W/2 W/2)

Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

# TOWNSHIP 18 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 1: Lots 1, 2, 3, 4; (N/2 N/2) S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

## TOWNSHIP 18 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 6: Lots 1, 2, 3, 4, 5; SE/4 NW/4; S/2 NE/4 (N/2)

6. The vertical limits of the Unit Area shall comprise the correlative interval containing the Glorieta and Paddock formations as found from a depth of 5,838 feet to a depth of 6,235 feet on the Schlumberger Sonic Log run on the Mobil Bridges State Well No. 95 located in the SE/4 SE/4 (Unit P) of Section 26, Township 17 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED THIS 27 HDAY OF AUGUST, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY
DIRECTOR

STATE OF NEW MEXICO
)
ss.
COUNTY OF SANTA FE

The foregoing instrument was acknowledged before me this 27 day of August, 1992, by William J. LeMay, Director of the New Mexico Oil Conservation Division, on behalf of said Division.

Notary Public

My Commission Expires:

Oct 28, 1953

#1U010



# State of New Mexico

OFFICE OF THE

# Commissioner of Public Lands

JIM BACA COMMISSIONER

Santa Fe

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

August 27, 1992

Campbell, Carr, Berge & Sheridan, P. A. P. O. Box 2208
Santa Fe, New Mexico 87504-2208

Attn: Mr. William F. Carr

Re: Final Approval

Vacuum Glorieta West Unit Lea County, New Mexico

Dear Mr. Carr:

This office is in receipt of your letter of August 27, 1992 requesting final approval of the Vacuum Glorieta West Unit. Attached with your letter is a copy of the New Mexico Oil Conservation Division's Statutory Unitization Order No. R-9710 entered on August 25, 1992 in Case No. 10515. Under this order all tracts within the proposed unit boundary will be committed to the unit.

Please be advised that the Commissioner of Public Lands has this date granted final approval to the Vacuum Glorieta West Unit, Lea County, New Mexico and your Initial Plan of Operation.

Our approval is subject to the New Mexico Oil Conservation Division approving your waterflood project and a stipulation, to be made a part hereof, requiring the Unit Operator, within three years following the effective date of the Vacuum Glorieta West Unit, to submit for the Commissioner's review the fresh water requirements for this unit.

Enclosed are Five (5) Certificates of Approval.

Your filing fee in the amount of Three Hundred Dollars (\$300.00) has been received.

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: Down of the FLOYD O. PRANDO, Director
Oil/Gas and Minerals Division New Mexico
(505) 827-5744

JB/FOP/pm OCD-Santa Fe TRD-Santa Fe

OPERATOR: TEXACO EXPLORATION AND PRODUCTION INC. UNIT NAME: VACUUM GLORIETA MEST UNIT

COUNTY: LEA

SHAR 8/25/92 STATUTORY UNITIZATION CASE NO. 10515 ORDER NO. R-9710	8/27/92 2778.86 2738.86 -0- 40.00 LEAS	ORDER NO. DATE ACREAGE INDIAN	
CASE NO. 10	2778	ACRE	IOIAL
515 ORDER I	.86	AGE	
NO. R-9710	2738.86		SIAIL
	-0-	INDIAN	r EUEKAL-
	40.00		יבנ
SHARING IN ROYALTY	LEASE EXTENDED IF		SEG CLAUSE
	SO LONG AS	TERM	

CPL: 8/27/92

# UNIT AREA:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW%, SW%NW%, SW%SE% Section 25: ALL

Section 26: E\SE\

Section 35: NE%,N%SE%,SE%SE% Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1,2,3,4,(W%W%)

Section 31: Lots 1,2,3,4,(W\(\frac{1}{2}\)W\(\frac{1}{2}\)

TOWNSHIP 18 SOUTH, RANGE 34 EAST, IMPM

Section 1: Lots 1,2,3,4, (N½N½), S½NE½ Section 2: Lot 1, (NE½NE½)

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1,2,3,4,5,SE\NW\\angle,S\\NE\\angle,(N\\angle)

# EXHIBIT "B" SCHEDULE SHOWING ALL LANDS AND LEASES WITHIN THE VACULUM GLORIETA MEST UNIT AREA LEA COUNTY, NEW MEXICO

STATE LANDS

AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	<b>9</b>	AND PERCENTAGE		OVERRIDING ROYALTY CHARER AND PERCENTAGE	AND PERCENTAGE		BENEFICIARY
NEW MEXICO	SW/4 NE/4, SE/4 NE/4, SW/4 NW/4, SE/4 NW/4, SW/4 SW/4, SE/4 SW/4, SE/4 SW/4, SE/4, SW/4 SE/4, SW/4 SE/4, SW/4 SE/4, SW/4 SE/4, SW/4 SE/4, SW/4 SE/4 SE/4 SE/4 SE/4 SE/4 SE/4 SE/4 SE	400.00	B-155-6 HBP 08-14-31	COMMISSIONER OF PUBLIC LANDS NM	12.50	TEXACO EXPLORATION AND PRODUCTION INC.	100.00		TEXACO EXPLORATION AND PRODUCTION INC.	100.00	c.s.
2 NEW MEXICO "U" STATE	LOT 1, SECTION 2, T18S-R34E	40.92	B-867-2 HBP 05-06-32	COMMISSIONER OF PUBLIC LANDS NM	12.50	TEXACO EXPLORATION AND PRODUCTION INC.	100.00	,	TEXACO EXPLORATION AND PRODUCTION INC.	100.00	C.s.
3 NEW MEXICO "T"	SE/4 NE/4 SECTION 25, T17S-R34E	40.00	B-1030-2 HBP 07-11-32	COMMISSIONER OF PUBLIC LANDS NM	12.50	TEXACO EXPLORATION AND PRODUCTION INC.	100.00	•	TEXACO EXPLORATION AND PRODUCTION INC.	100.00	Míl. Inst.
ALE VIE MEXICO "Q"	NN/4 SE/4, SN/4 SE/4, SE/4 SE/4 Section 25, 1175-R34E	120.00	B-1056-2 HBP 07-16-32	COMMISSIONER OF PUBLIC LANDS NM	12.50	TEXACO EXPLORATION AND PRODUCTION INC.	100.00	Ť	TEXACO EXPLORATION AND PRODUCTION INC.	100.00	Mil. Inst.
NEW MEXICO "M"	LOTS 3, 4, SECTION 1, T18S-R34E	81.58	B-1080-2 HBP 07-30-32	COMMISSIONER OF	12.50	TEXACO EXPLORATION AND PRODUCTION INC.	100.00		TEXACO EXPLORATION AND PRODUCTION INC.	100.00	c.s.

# SCHEDULE SHOWING ALL LAWDS AND LEASES WITHIN THE VACUAM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO STATE LAWDS

10 BRIDGES STATE	STATE "H"	8 STATE "D"	. 7	WARN STATE	TRACT NO. AND TRACT NAME
STATE	Ŧ.	D#	MEXICO "R"	ATE	O. CT NAME
SW/4, SW/ NW/4, N/2 SECTION 2 T175-R34E	LOT 1, SE	LOT 4, SE	LOTS 1, SECTION	SECTION	DES
SW/4, SW/4 NH/4 SECTION 24; NH/4, N/2 NE/4, SW/4 NE/4 SECTION 25; E/2 SE/4 SECTION T175-R34E	LOT 1, SECTION 31, T175-R35E	LOT 4, SECTION 31, T178-R35E	5, T18S-R35	ECTION 6, T18S-R35E	DESCRIPTION OF LAND
SW/4, SW/4 NW/4 SECTION 24; NW/4, N/2 NE/4, SW/4 NE/4 SECTION 25; E/2 SE/4 SECTION 26; T175-R34E	117S-R35E	1178-R35E	LOTS 1, 2, SW/4 NE/4, SE/4 NE/4 SECTION 6, T18S-R35E	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LAND
560,00	37.56	37.42	160.00	154.94	ACRES
8-1520-1 HBP 1	B-1518-1	8-1415-2 HBP 12-03-32	В-1306-2 НВР	8-1113-1 HBP 00	SERIAL NO. AND EFFECTIVE DATE
1 12-21-32	12-21-32	2-03-32	11-10-32	08-10-32	DATE
COMMISS!	PUBLIC I	COMMISS:	COMMISS!	COMMISS!	BASIC RO
COMMISSIONER OF	COMMISSIONER OF PUBLIC LANDS NM	COMMISSIONER OF PUBLIC LANDS NM	COMMISSIONER OF PUBLIC LANDS NM	COMMISSIONER OF PUBLIC LANDS NM	BASIC ROYALTY OMMER
12.50	12.50	12.50	12.50	12.50	<b>3</b>
MOBIL PROD TEXAS & NE INC.	MOBIL PROD TEXAS & NE	SHELL WESTERN E & P INC.	TEXACO EXPLORATION AND PRODUCTION INC.	MARATHON O	AMD PI
PRODUCING REW MEXICO	PRODUCING	E R	LORATION	MARATHON OIL COMPANY 100.00	AND PERCENTAGE
100.00	100.00	100.00	100.00	100.00	
			'		OVERRIDI
					OVERRIDING ROYALTY OWNER
MOBI TEXA	MOBI TEXA INC.	TEXA	TEXA AND	MARA	
MOBIL PRODUCING TEXAS & NEW MEXICO INC.	MOBIL PRODUCING TEXAS & NEW MEXICO INC.	TEXACO EXPLORATION AND PRODUCTION INC	TEXACO EXPLORATION AND PRODUCTION INC	MARATHON OIL COMPANY 100.00	WORKING INTEREST CHNER AND PERCENTAGE
100.00	5	ION 100.00 INC.	·	MPANY 100.	EST CLINER
ŏ	0.00	. <b>8</b>	100.00	3	i
Section 24 & 26 C.S. Section 25 Section 25 Mil.	C.s.	c.s.	c.s.	် ပ	BENEFICIARY

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# EXHIBIT "8" SCHEDULE SHOKING ALL LANDS AND LEASES WITHIN THE VACUAM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO

STATE LANDS

	15 STATE "A"	14 "W MEXICO "L" ATE	13 NEW MEXICO "N" STATE	12 SANTA FE	11 STATE "BA"	TRACT NO. AND TRACT NAME
	SW/4 SE/4 SECTION 24, 1175-R34E	LOTS 1, 2, SW/4 NE/4, SE/4 NE/4 SECTION 1, T188-R34E	LOTS 1, 2, 3, 4, SECTION 30, 1175-R35E	SW/4 NW/4, NW/4 SW/4 SECTION 31, T17S-R35E	NE/4 NE/4, NH/4 NE/4, NE/4 NH/4, NH/4 NH/4 NH/4 SECTION 36, T175-R34E	DESCRIPTION OF LAND
	40.00	160.90	150.56	74.98	160.00	ACRES
	8-1838-3 HBP 03-31-33	8-1733-2 HBP 02-17-33	B-1722-2 HBP 02-13-33	B-1606 HBP 01-10-33	B-1565-8 HBP 12-29-32	SERIAL NO. AND EFFECTIVE DATE
COMMISSIONER OF PUBLIC LANDS NM		COMMISSIONER OF PUBLIC LANDS NM	COMMISSIONER OF PUBLIC LANDS NM	COMMISSIONER OF PUBLIC LANDS NM	COMMISSIONER OF PUBLIC LANDS NM	BASIC ROYALTY OWNER AND PERCENTAGE
12.50		12.50	12.50	12.50	12.50	<b>5</b>
	ATLANTIC RICHFIELD COMPANY	TEXACO EXPLORATION AND PRODUCTION INC.	TEXACO EXPLORATION AND PRODUCTION INC.	PHILLIPS PETROLEUM 100.00 COMPANY	TEXACO EXPLORATION AND PRODUCTION INC.	LESSEE OF RECORD  AND PERCENTAGE
	ICHFIELD 100.00	100.00	100.00 2/ 5 37/2	100.00	7/23/4	
	ARCO OIL AND GAS COMPANY	.00		1	Ì	OVERRIDING ROYAL
	12.50					OVERRIDING ROYALTY OWNER AND PERCENTAGE
*TITLE CURATIVE IN PROGRESS INVOLVING WORKING INTEREST OWNERSHIP ONLY	*TEXACO EXPLORATION AND PRODUCTION INC.	TEXACO EXPLORATION AND PRODUCTION INC.	TEXACO EXPLORATION AND PRODUCTION INC.	PHILLIPS PETROLEUM COMPANY	TEXACO EXPLORATION AND PRODUCTION INC.	AND PERCENTAGE
ROGRESS	100.00	100.00	100.00	100.00	100.00	SWER .
	c.s.	c.s.	c.s.	c.s.	c.s.	BENEFICIARY

# SCHEDULE SHOWING ALL LAWDS AND LEASES WITHIN THE VACUAM GLORIETA MEST UNIT AREA LEA COUNTY, MEW MEXICO STATE LANDS

TRACT NO.  AND TRACT NAME	DESCRIPTION OF LAND	ACRES	SERIAL NO. AND EFFECTIVE DATE	BASIC ROYALTY OWNER AND PERCENTAGE	) XS	AND PERCENTAGE		AND PERCENTAGE	OVERRIDING ROYALTY CLINER AND PERCENTAGE	R WORKING INTEREST OWNER AND PERCENTAGE	LINER	BENEFICIARY
16 STATE "YB"	NE/4 SW/4 SECTION 36, T175-R34E	40.00	В-2146-6 НВР 09-19-33	COMMISSIONER OF PUBLIC LANDS NM	72.50	CORPORATION	<b>100.</b> 00			AMERADA HESS CORPORATION	100.00	c.s.
17 STATE "!"	NU/4 SW/4 SECTION 36, T175-R34E	40.00	B-2146-07 HBP 09-19-33	COMMISSIONER OF	12.50	MOBIL PRODUCING 10 TEXAS & NEW MEXICO INC.	100.00			MOBIL PRODUCING TEXAS & NEW MEXICO INC.	100.00	£. 3.
M. E. HALE	N/2 SE/4, SE/4 SE/4 SECTION 35, T17S-R34E	120.00	B-2317-1-A HBP 12-18-33	COMMISSIONER OF PUBLIC LANDS NM	12.50	PHILLIPS PETROLEUM 100.00 COMPANY		CRESENT P. HALE FOUNDATION	6.25	PHILLIPS PETROLEUM 100.00 COMPANY	100.00	Mil. Inst
19 McALLISTER STATE	SW/4 SECTION 25, T17S-R34E	160.00	8-2706 HBP 05-28-34	COMMISSIONER OF PUBLIC LANDS NM	12.50	MARATHON OIL 19	100.00			MARATHON OIL COMPANY	100.00	Mil. Inst
20 STATE H-35	NE/4 SECTION 35, T17S-R34E	160.00	8-3196 HBP 08-10-34	COMMISSIONER OF	12.50	CONDCD INC. 10	100.00			CONOCO INC.	100.00	Mil. Inst

20 STATE TRACTS - 2738.86 ACRES OR 98.56% OF UNIT AREA

# EXHIBIT \*\*B\*\* SCHEDULED SHOWING ALL LANDS AND LEASES WITHIN THE VACUUM GLORIETA WEST UNIT AREA LEA COUNTY, NEW MEXICO

FEE LANDS

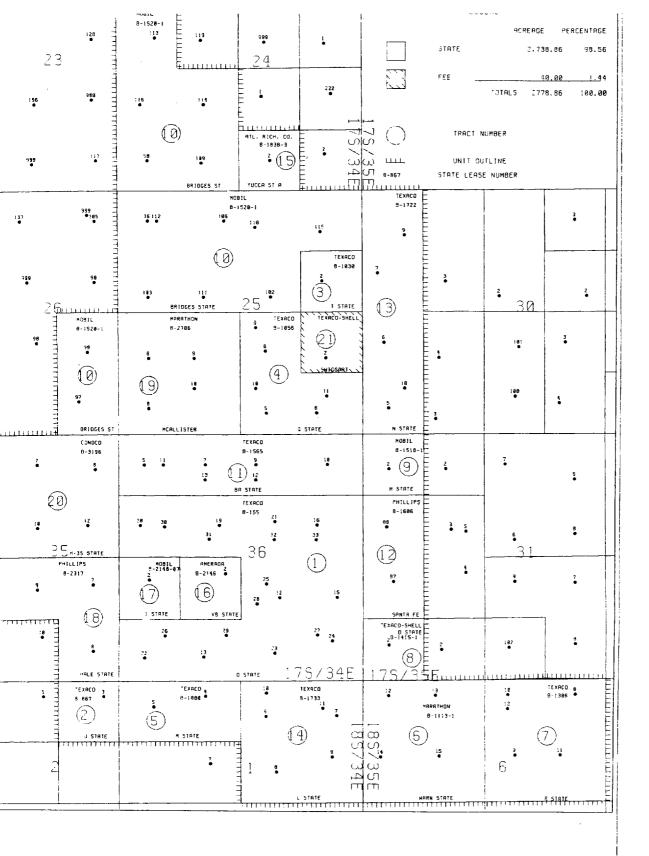
		L. A. SWIGART	21	TRACT NO. AND TRACT NAME
			NE/4 SE/4 SECTION 25, T17S-R34E	DESCRIPTION OF LAND
			40.00	ACRES
			HBP	LEASE STATUS
MARJORIE G. GROSS KATHLEEN ROBBINS RONALD ROBBINS EARL J. WATERS	CHRISTINE CAMPOS NORMAN GROSS &	SARA C. BURNS	STEPHANIE ALDEMIR	BASIC ROYALTY CLINER AND PERCENTAGE
.0208334 .0069444 .0208334	.0069444	.0312500	.0069444	
				OVERRIDING ROYALTY CLANER AND PERCENTAGE
		AND PRODUCTION INC.	TEXACO EXPLORATION 100.00	WORKING INTEREST OWNER
		•	00.00	
<	ion chos			BENEFICIARY

1 FEE TRACT - 40 ACRES OR 1.44% OF UNIT AREA

# RECAPITULATION

FEDERAL LANDS: -0STATE LANDS: 2738.86 ACRES OR 98.56%
FEE LANDS: 40.00 ACRES OR 1.44%
FEE LANDS: 2778.86 ACRES 100.00%

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LEA COUNTY. NEW MEXICO EXHIBIT DY  STORE 1 "=1639" M. HULLINS/R. COON   MT 16-JAN-92	EXHIBIT 9"	1 C/FM   MA		
	LEA COUNTY. NEW MEXICO	scar 1 "=1639"	M. MULLINS/R.	GOON   16-JAN-92
L ALCCOUR GERVIE - B. MERL ONTE	VOCUUM CLOPIETO MEST HALT			
MIDLAND EXAS 8.3.A.		1	10 1 E E E 11 10 10 10 10 10 10 10 10 10 10 10 10	PRODUCING



# State of New Mexico

## OFFICE OF THE

# Commissioner of Public Lands

Santa Fe

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

June 12, 1992

Texaco, USA
P. O. Box 3109
Midland, Texas 79702

Attn: Mr. Mike Mullins

Re: Preliminary Approval Request

Proposed Vacuum Glorieta West Unit

Lea County, New Mexico

Dear Mr. Mullins:

This office has reviewed the unexecuted copy of unit agreement, which you have submitted for the proposed Vacuum Glorieta West Unit Area, Lea County, New Mexico. This agreement meets the general requirements of the Commissioner of Public Lands and has this date granted you preliminary approval as to form and content.

Our preliminary approval is given subject to a stipulation to be made a part of our final approval requiring that the Operator shall, within three years following the effective date of the Vacuum Glorieta West Unit, submit for the Commissioner's review the fresh water requirements for this unit.

Preliminary approval shall not be construed to mean final approval of this agreement in any way and will not extend any short term leases, until final approval and an effective date have been given.

When submitting your agreement for final approval, please submit the following:

- 1. Application for final approval by the Commissioner setting forth the tracts that have been committed and the tracts that have not been committed.
- 2. All ratifications from the Lessees of Record and Working Interest Owners. All signatures should be acknowledged by a notary and one set must contain original signatures.
- 3. Order of the New Mexico Oil Conservation Division. Our approval will be conditioned upon subsequent favorable approval by the New Mexico Oil Conservation Division.

Texaco, USA June 12, 1992 Page 2

- 4. A copy of the Unit Operating Agreement.
- 5. A copy of your Initial Plan of Operation.
- 6. Supporting documentation for your letter of June 2, 1992 relating to the use of fresh water as an injectant for this project.
- 7. Please submit a \$20,000.00 multiple oil and gas lease surface improvement damage bond. An instruction sheet for filing this type of bond is enclosed.

Your filing fee in the amount of three hundred dollars has been received. If you have any questions, or if we can 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, Director Oil/Gas and Minerals Division (505) 827-5744

JB/FOP/pm encls.

cc: Reader File
OCD-Santa Fe
William F. Carr

### STATE OF NEW MEXICO

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

# OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Case	No.	1051	15	
Orde	r No	. R		

APPLICATION OF TEXACO EXPLORATION AND PRODUCTION INC. FOR STATUTORY UNITIZATION, LEA COUNTY, NEW MEXICO.

# TEXACO'S PROPOSED ORDER OF THE DIVISION

# **BY THE DIVISION**:

This cause came on for hearing at 8:15 a.m. on July 23, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this \_\_\_\_\_ day of July, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

# FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Texaco Exploration and Production Inc. ("Texaco") seeks the statutory unitization, pursuant to the "Statutory Unitization Act", Sections 70-7-1 through 70-7-21, NMSA, (1978), of 2778.86 acres, more or less, within the Vacuum Glorieta Pool comprised of the following described acreage in Lea County, New Mexico:

Case No. 10515 Order No. R-\_\_\_\_\_ Page 2

# TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 24: SW/4; SW/4 NW/4; SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4; N/2 SE/4; SE/4 SE/4

Section 36: All

## TOWNSHIP 17 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 30: Lots 1, 2, 3, 4 (W/2 W/2) Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

## TOWNSHIP 18 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 1: Lots 1, 2, 3, 4; S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

## TOWNSHIP 18 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 6: Lots 1, 2, 3, 4, 5; SE/4 NW/4; S/2 NE/4 (N/2)

Applicant further seeks approval of the Unit Agreement and the Unit Operating Agreement for the Vacuum Glorieta West Unit Area.

- (3) The proposed unit shall be known as the Vacuum Glorieta West Unit and the Unit Area should be designated the Vacuum Glorieta West Unit Area ("the Unit Area").
- (4) The vertical limits of the Unit Area should comprise the interval containing the Glorieta and Paddock formations as found from a depth of 5,838 feet to a depth of 6,235 feet on the type log of the Mobil Bridges State Well No. 95 located in the SE/4 SE/4 (Unit P) of Section 26, Township 17 South, Range 34 East, N.M.P.M., Lea County, New Mexico in the Vacuum Glorieta Pool.
- (5) No interested party appeared in opposition to the unitization nor to the vertical limits of the proposed Unit Area.

Case No. 10515
Order No. R
Page 3

- (6) The Unit Area contains 21 separate tracts owned by 6 different working interest owners.
- (7) As of the date of hearing, the owners of over 84% of the working interest (and over 96% of the royalty interest) were effectively committed to the unit or have balloted to join the unit.
- (8) Texaco will seek authority to institute an enhanced recovery project, for the recovery of oil and associated gas, condensate, and all associated liquefiable hydrocarbons, within and to be produced from the proposed Unit Area in Case No. 10516.
- (9) Enhanced recovery operations by waterflood should result in additional recovery from the Unit Area of approximately 14.5 Million barrels of oil.
- (10) The unitized management, operation and further development of the Unit Area, as proposed, is reasonable and necessary to effectively and efficiently carry on enhanced recovery operations and will substantially increase the ultimate recovery of oil and gas from the unitized formation.
- (11) The proposed unitized method of operation as applied to the Unit Area is feasible and will result with reasonable probability in the increased recovery of substantially more oil from the unitized portion of the pool than would otherwise be recovered without unitization.
- (12) The estimated additional cost of the proposed unitized operations within the Unit Area will not exceed the estimated value of the additional oil and gas plus a reasonable profit.
- (13) The applicant, designated operator of the Unit Area pursuant to the Unit Agreement and Unit Operating Agreement, has made a good faith effort to secure voluntary unitization within the Unit Area.
- (14) The Phase I and Phase II participation formulas contained in the Unitization Agreement, allocate the produced and saved unitized substances to the separately owned tracts in the Unit Area, on a fair, reasonable and equitable basis.

- (15) Unitization and the adoption of the proposed unitized methods of operation will benefit the working interest owners and the royalty interest owners of the oil and gas rights within the Unit Area.
- (16) The Vacuum Glorieta West Unit Agreement and Unit Operating Agreement, as applied to the Unit Area, provide for unitization and unit operation of the Unit Area upon terms and conditions that are fair, reasonable and equitable and which include:
  - (a) An allocation to the separately owned tracts in the Unit Area of all oil and gas that is produced from the Unit Area and which is saved, being the production that is not used in the conduct of unit operations or not unavoidably lost;
  - (b) A provision for the credits and charges to be made and the adjustment among the owners in the Unit Area for their respective investments in wells, tanks, pumps, machinery, materials and equipment contributed to the unit operations;
  - (c) A provision governing how the costs of unit operations, including capital investments, shall be determined and charged to the separately owned tracts and how said costs shall be paid, including a provision providing when, how, and by whom the unit production allocated to an owner who does not pay his share of the costs of unit operations shall be charged to such owners, of the interest of such owners, and how his interest may be sold and the proceeds applied to the payment of his costs;
  - (d) A provision designating the unit operator and providing for the supervision and conduct of the unit operations, including the selection, removal or substitution of an operator from among the working interest owners to conduct the unit operations;

Case No. 10515 Order No. R-\_\_\_\_\_ Page 5

- (e) A provision for a voting procedure for the decision of matters to be decided by the working interest owners in respect to which each working interest owner shall have a voting interest equal to his unit participation; and
- (f) The time when the unit operations shall commence and the manner in which, and the circumstances under which, the unit operations shall terminate and for the settlement of accounts upon such termination.
- (17) The statutory unitization of the Vacuum Glorieta West Unit Area is in conformity with the above findings, and will prevent waste and will protect the correlative rights of all owners of interest within the proposed Unit Area, and should be approved.

# **IT IS THEREFORE ORDERED THAT:**

- (1) The Vacuum Glorieta West Unit Area comprising 2778.86 acres, more or less, in the Vacuum Glorieta Pool, Lea County, New Mexico, is hereby approved for statutory unitization pursuant to the Statutory Unitization Act, Sections 70-7-1 through 70-7-21, NMSA, (1978).
- (2) The lands included within the Vacuum Glorieta West Unit Area shall comprise:

# TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 24: SW/4; SW/4 NW/4; SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4; N/2 SE/4; SE/4 SE/4

Section 36: All

## TOWNSHIP 17 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 30: Lots 1, 2, 3, 4 (W/2 W/2) Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

Case No. 10515
Order No. R
Page 6

# TOWNSHIP 18 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 1: Lots 1, 2, 3, 4; S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

# TOWNSHIP 18 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 6: Lots 1, 2, 3, 4, 5; SE/4 NW/4; S/2 NE/4 (N/2)

- (3) The vertical limits of the Vacuum Glorieta West Unit Area shall comprise the interval containing the Glorieta and Paddock formations as found from a depth of 5,838 feet to a depth of 6,235 feet on the type log of the Mobil Bridges State Well No. 95 located in the SE/4 SE/4 of Section 26, Township 17 South, Range 34 East, N.M.P.M., Lea County, New Mexico in the Vacuum Glorieta Pool.
- (4) The applicant shall not institute a waterflood project for the secondary recovery of oil, gas and all associated liquefiable hydrocarbons within and produced from the Unit Area, until the enhanced recovery project, which is currently the subject of Case No. 10516, has been approved by the Division.
- (5) The Unit Agreement and the Unit Operating Agreement for the Vacuum Glorieta West Unit, presented as evidence in this case, are hereby incorporated by reference into this Order.
- (6) The Unit Agreement and the Unit Operating Agreement for the Vacuum Glorieta West Unit provide for unitization and unit operation of the Unit Area upon terms and conditions that are fair, reasonable and equitable and include:
  - (a) An allocation to the separately owned tracts in the Unit Area of all oil and gas that is produced from the Unit Area and which is saved, being the production that is not used in the conduct of unit operations or not unavoidably lost;

- (b) A provision for the credits and charges to be made and the adjustment among the owners in the Unit Area for their respective investments in wells, tanks, pumps, machinery, materials and equipment contributed to the unit operations;
- (c) A provision governing how the costs of unit operations, including capital investments, shall be determined and charged to the separately owned tracts and how said costs shall be paid, including a provision providing when, how, and by whom the unit production allocated to an owner who does not pay his share of the costs of unit operations shall be charged to such owners, of the interest of such owners, and how his interest may be sold and the proceeds applied to the payment of his costs;
- (d) A provision designating the unit operator and providing for the supervision and conduct of the unit operations, including the selection, removal or substitution of an operator from among the working interest owners to conduct the unit operations;
- (e) A provision for a voting procedure for the decision of matters to be decided by the working interest owners in respect to which each working interest owner shall have a voting interest equal to his unit participation; and
- (f) The time when the unit operations shall commence and the manner in which, and the circumstances under which, the unit operations shall terminate and for the settlement of accounts upon such termination.

Case No. 10515
Order No. R
Page 8

- (7) This Order shall not become effective unless and until seventy-five (75) percent of the working interest owners and seventy-five (75) percent of the royalty interest owners in the Unit Area have approved the plan for unit operations as required by Section 70-7-8 NMSA, (1978) Comp.
- (8) If the persons owning the required percentage of interest in the Unit Area as set out in Section 70-7-8 NMSA, (1978) Comp., do not approve the plan for unit operations within a period of six (6) months from the date of entry of this Order, this Order shall cease to be of further force and effect and shall be revoked by the Division, unless the Division shall extend the time for ratification for good cause shown.
- (9) When the persons owning the required percentage of interest in the Unit Area have approved the plan for unit operations, the interests of all persons in the Unit Area are unitized whether or not such persons have approved the plan of unitization in writing.
- (10) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

**DONE** at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY Director

SEAL

#### STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 3, 1993

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

Texaco Exploration and Production Company P.O. Box 3109 Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Administrative Amendment to

Division Order No. R-9714

Dear Mr. Basham:

Reference is made to your letter dated January 13, 1993 requesting exceptions, pursuant to Division General Rule 104.F(1), to twelve certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992. All wells are in the Vacuum-Glorieta Pool, Vacuum-Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico, by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations for nine of these wells to avoid buried pipelines, two to avoid electric lines and one to avoid an existing wellbore. All of these existing conditions were apparently not known to Texaco's personnel at the time said Case No. 10516 was brought before the Division.

During our initial review of this application it was necessary to acquire additional information for one well and deny another. To expedite this matter, ten locations will be approved at this time.

By the authority granted me under the provisions of General Rule 104.F, the following ten unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Lease Name	Corrected Footage Location	U-L-S-T-R	VGWU Well No.
State H-35	328' FNL - 1214' FEL	A-35-17S-34E	50
State H-35	1340' FNL - 1090' FEL	H-35-17S-34E	63
State H-35	2569' FSL - 1226' FEL	I-35-17S-34E	77
M. E. Hale	1459' FSL - 1048' FEL	I-35-17S-34E	91
NM "O" State NCT-1	453' FSL - 1340' FWL	N-36-17S-34E	105
NM "O" State NCT-1	213' FSL - 351' FEL	P-36-17S-34E	108
NM "L" State	964' FNL - 90' FEL	A-1-18S-34E	121
Warn State "AC-2"	845' FNL - 1061' FWL	D-6-18S-35E	122
Warn State "AC-2"	1005' FNL - 2244' FWL	C-6-18S-35E	123
NM "R" State NCT-1	1020' FNL - 1519' FEL	B-6-18S-36E	124

All other provisions of said Order No. R-9714 and said Division letter dated January 8, 1993 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay

Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach

Me: Case No. 10516

#### STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

POST OFFICE 80X 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Application to amend an injection well location approved by Division Order No. R-9714. Vacuum-Glorieta West Unit Well No. 27.

Dear Mr. Basham:

The proposed amendment for the subject well appears to be somewhat more involved than simply moving to avoid a pipeline. Division Order No. R-9714 approved the No. 27 well to be drilled 1171 feet from the South line and 34 feet from the East line of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico. The plat (see copy attached) submitted in your application dated January 13, 1993 shows the original location to be 2359 feet from the South line and 34 feet from the East line; this is a 1188-foot difference.

Please provide me a statement outlining the reason for this discrepancy.

Sincerely.

Michael E. Stogner

MES/amg

cc: Oil Conservation Division - Hobbs

# EXHIBIT "A" DIVISION ORDER NO. R-9714 VACUUM GLORIETA WEST UNIT APPROVED NEWLY DRILLED INJECTION WELLS

LEASE NAME	LOCATION	ULSTR	VGWU WELL NO.
Bridges State	1360' FSL & 1300' FWL	M-24-17S-34E	4
Bridges State	1209' FSL & 2582' FWL	N-24-17S-34E	5
Bridges State	73' FNL & 1411' FWL	C-25-17S-34E	9
Yucca State	100' FSL & 2628' FWL	0-24-17S-34E	10
Bridges State	246' FNL & 1554' FEL	B-25-17S-34E	11
Bridges State	1328' FNL & 1399' FWL	F-25-17S-34E	17
Bridges State	1651' FNL & 2543' FWL	F-25-17S-34E	18
Bridges State	1502' FNL & 1520' FEL	G-25-17S-34E	19
NM T State NCT-1	1541' FNL & 181' FEL	H-25-17S-34E	20
NM N State	1330' FNL & 1283' FWL	E-30-17S-35E	21
Bridges State	TTT1* FSL & 34: PEL	THE THE SAE	27
McAllister State	2304' FSL & 1127' FWL	L-25-17S-34E	28
McAllister State	2522' FSL & 2283' FWL	K-25-17S-34E	29
NM Q State	2305' FSL & 1391' FEL	J-25-178-34E	30
Swiggart	2520' FSL & 128' FEL	1-25-17S-34E	31
McAllister State	2387' FSL & 51' FEL	M-25-17S-34E	38
McAllister State	1194' FSL & 1055' FWL	M-25-173-34E	39
McAllister State	1570' FSL & 2404' FWL	K-25-175-34E	40
NM Q State	1437' FSL & 1646' FEL	J-25-17S-34E	40
	1250' FSL & 8 FWL	M-30-17S-35E	
NM N State			42
NM N State	1453' FSL & 1247' FWL	L-30-17S-35E	43
State H-35	112' FNL & 1214' FEL	A-35-17S-34E	50
State H-35	24' FNL & 31' FEL	A-35-17S-34E	51
McAllister State	65' FSL & 1587' FWL	N-25-17S-34E	52
McAllister State	65' FSL & 2350' FWL	N-25-17S-34E	53
NM Q State	7' FSL & 1693' FEL	0-25-17S-34E	54
NM N State	177' FSL & 52' FWL	M-30-17S-35E	55
State H-35	1370'FNL & 1135' FEL	A-35-17S-34E	63
NM O State NCT-1	1484' FNL & 204' FWL	E-36-17S-34E	64
NM O State NCT-1	1472' FNL & 1492' FWL	F-36-17S-34E	65

January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well Nos. (27), 50, 63, 77, 91, 105, 106, 108, 121, 122, 123, and 124 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 27, 50, 91, 105, 106, 108, 121, 122, and 123 were moved because of pipelines. Well Nos. 63 and 124 were moved because of electric lines. Well No. 77 was moved to clear Phillip's M. E. Hale Well No. 16.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwa

C. P. Basham Drilling Operations Manager

CWH:

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

Subsets to Appropriate District Office State Lease - 4 explos Fee Lease - 3 explos

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

Form C-102 Reviewd 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM \$8210

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

DISTRICT III
1000 Rio Brasse Rd., Ages, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

EXACO EXPL. AND PROD. Inc.  VACUUM GLORIETA WEST UNIT 27  Lea  1 7-South 34-East NAPPM Lea  1 17-South 1 10-10-10-10-10-10-10-10-10-10-10-10-10-1			AII DI	MANORE MUSICOL	HOM END OLIGE	boundaries of the f		<del> </del>	Well No.	
Section 1 Provides Consistent of West: 26 17 - South 149 and 54 - East NMPM Lea  2 15 9 feet from the South 159 and 54 - East NMPM East 159 and served flow 1 Provides glorination 100 and served flow 1 Provides glorination 100 and served flow 1 Provides glorination 1 Provides glorination 1 Provides 1 Provides glorination 1 Provides glorination 1 Provides	MEAN CO	DVDI XVO	י מספק				a time	m 11317m	1	
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at Foodage Location of Well:  237.9 feet from the South Base and 64 feet from the East line through the Foodage Formation Foodage Formation Food Company 1. Outline the company deficients to be subject with by outlone such that the the same is desicated to the subject with the company to the company that the company that the company to the same is desicated to the well, cottine each and identify the companying thereof (both as to working interest and royshy).  3. If more than one leate of different corresciply is desicated to the well, have the interest of all covers base consolidated by commanditization, unititation, force-pooling, and the same at the descriptions which have similarly been consolidated. (Use severage add of the form if more consolidated in the very lamb ill ill interests have been consolidated (by commanditization, unititation, forced-pooling, or otherwise) or until a non-marked unit, eliminating such interest, has been approved by the Division.  266  276  276  277  277  278  278  278	T	1	,	w+h		-Fact		* T	ea	
23.9 feet from the South Host and Arman Host Liver Producing Formulate Arman Host Liver Producing Formulate Arman Host Liver Producing Formulate Arman Host Liver Liver Liver Liver Liver Liver Liver Control Page 21 of 19 and 19	al Foctage Lo	cation of Well:	17-30	JU1.11	<u></u>	Last	NMPM	<u> </u>		
and lawed likes.  Producing Formation  1. Outlins the terrapy declinated to the multipose well by colored panels or backure marks on the plat below.  2. If more than one stem is declinated to the well, cottine each and identify the ownership thereof (both as to working inserest and royalty).  3. If more than one stem of differenc ownership is declinated to the well, have the interest of all owners have communicated by communications, row-points, etc.  1. If more than one stem of difference community is declinated to the well, have the interest of all owners have communicated by communications, row-points, etc.  1. If more than one stem of difference community is an expensive to a second distance.  2. If more than one stem of difference community is an expensive to a second distance.  3. If more than one stem of difference community is an expensive to a second distance.  3. If more than one stem of difference community is an expensive to a second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance.  4. If more than one stem is declinated to the well, continue to the second distance to the well declinated to the wel	•		iou+h	line and	64		las las	. East	lina	
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weitization, force-pooling, st. 7  If server is "po" list the owners and tract descriptions which have authority been consolidated. (Use aware side of this form if senemany.  No altowable will be assigned to the well until all instrumes have been respectificated (by communication, untilization, forced-pooling, or otherwise) or until a son-desded day, elfericating such inserve, has been approved by the Division.  OPERATOR CERTIFICATION I havely complete the leafure consolidated force in true and complete to been of my inserving consolidated force in true and complete to be a of my inserving consolidated force in true and complete to be a of my inserving consolidated force in true and complete to be a of my inserving consolidated force in true and complete to be a of my inserving consolidated force in true and complete to be a of my inserving consolidated force in true and complete to be a first plant was plant to the plant and the consolidated force in true and complete to the best of my inserving.  Date Surveyor  Tenders No.  7254 J. S. Piper	2. If mo	re than one lease is	icidicated to the well	, outline each an	d identify the ow	resignis special (both	aa to work			
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JOB Vacuum Glorieta West Unit Location #2 SHEET NO \_\_\_ \_\_\_ OF \_\_\_ PIPER SURVEYING COMPANY P.O. Box 60432 CALCULATED BY O. Flores DATE 01/04/93 MIDLAND, TEXAS 79711 D. Kelly DATE 01/04/93 (915) 550-7810 1"=50' SCALE Bloo North 54' East 131 West original Loc. R 100 West PHOEASE Set 1/2" I Rod & Bottle W/T' Post @ Loc. # 27 2359 FSL 4 64' FEL Sec. 26 T-17-5 R-34-E 214 East Elev. 4012 3 P 95 South 222'EAST 224 South

PRODUCT 204.5 | Single Sneets) 205.5 | Padad) | FACTOR | In sur. Common Mana State to Common

TEXACO EXPLORATION AND PRODUCTION, I



## ાર િ**EN**ÉÁGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

93 JAN Z AM GOLL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR 1-17-43

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501			
RE: Proposed:  MC DHC NSL NSP SWD WFX PMX  Cantlement	Maximo	. Told will	# 20 H 35 173 # 20 H 35 173 # 63 H 35 173 # 27 I 35 17 4
I have examined the application for the:			# 9/ I 35 17-3~ # 106 G 36 17 34 # 103 P 36 17 34 # 121-3 1-18 34
Operator  Lease & Well No.  and my recommendations are as follows:	Unit	S-T-R	#122125 3 19 35 #12312 5 8 35 #124-26 6 18 45

Berry Sexton

Supervisor, District 1

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Application to amend an injection well location approved by Division Order No. R-9714. Vacuum-Glorieta West Unit

Well No. 106.

Dear Mr. Basham:

I am returning the subject application to you at this time. As you know, the rules of the Division (General Rule 104.F.(1)) do not allow for the drilling of wells within 10 feet of section lines, quarter-section lines, quarter-quarter section lines or lot lines.

This application will not be considered under any circumstances until the well location is moved a minimum of ten feet off of the quarter section line separating the SE/4 and SW/4 of Section 36. At that time, the Division will reconsider your request.

Sincerely,

Michael É. Stogner

MES/amg

cc: Oil Conservation Division - Hobbs



Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109

--- 10 33

January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 27, 50, 63, 77, 91, 105,
108, 121, 122, 123, and 124
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

#### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 27, 50, 91, 105, 108, 121, 122, and 123 were moved because of pipelines. Well Nos. 63 and 124 were moved because of electric lines. Well No. 77 was moved to clear Phillip's M. E. Hale Well No. 16.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwa

C. P. Basham
Drilling Operations Manager

CWH:

cc: NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Operator Well No. TEXACO EXPL. AND PROD. Inc. VACUUM GLORIETA WESX UNTT 106 Und Letter Section lownship Range County 17-South 34-East Lea 36 **MPM** Actual Footage Location of Well: feetimm the East feet from the South 2632 line and line Ground level Elev. Producing Formation Pool Dedicated Acreage: Vacuum Glorieta Pool 40 Glorieta; Paddock 3992 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Unitization Yes ∐ No If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION 54 I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. -61 58 <u>~</u> 60 • 59 Printee Name Royce D. Mariott 0 Position 0 64 0 65 61 **66**c Division Surveyor 68 o · Company 72 . Texaco Expl. & Prod. Date • 74 **\_**73 **-**75 January 7, 1993 0 18 80 36 °-SURVEYOR CERTIFICATION 82 O 81 0 · 19 I hereby certify that the well location shown on this plat was plotted from field notes of 86 . 87 actual surveys made by me or under my 85 supervison, and that the same is true and 89. correct to the best of my knowledge and **⊙ 93** belief. . 88 95 o 97 96 o Date Surveyed December 18, 1992 Signature & Seal of Professional Surveyor . 102 99 -101 105 ૧૭૭ 104 2632 106 Certificate No 40 A 7/254 John S. Piper 330 660 990 1320 1980 2310 2000 1500 1000 1650 500 Lea Co. FB. 7, Pg. 48

TEXACO EXPLORATION AND PRODUCTION, Inc Vacuum Glorieta West Unit Location 106 SHEET NO. CALCULATED BY DOW E Kelly DATE 01/07/93 CHECKED BY J. Stan Piper DATE 01/07/93 1"=50' - Passible Ripeline a 163 North 100 North

PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

Set 1/2"x 18" ( . Rod & Bottle w/T Post C Surveyed Loc. No. 106 Elev. 3992' Sec. 367 100 West 110 Enst 90 151 East P. Original Coc. No. 106 Set like Stake BIO'FSL' 2592'FEL Sac. 36

NCT 1964 ) gillegin Stientaj 1965 ( Praktorij ( <del>| Addisso</del>) <sub>de</sub> ten . derstan, blans. 0447 f. To Order PMCHE TOLL FREE 1-890-225-6380

Midland Division

PO Box 3109 Midland TX 79702-3109 COARDED CAN DIVISION

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January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. (27), 50, 63, 77, 91, 105,
106, 108, 121, 122, 123, and 124
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

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Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwa

C. P. Basham Drilling Operations Manager

CWH:

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

Form C-102 Revised 1-1-89

54 J. S.

Lea Co. FB.

Piper

Pq.

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7,

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

1320 1650

1980 2310

2000

1500

1000

500

0

330

660

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Operator TEXACO EXPL. AND PROD. Inc. VACUUM GLORIETA WEST UNIT Section Unit Letter Township 17-South 34-East Lea Actual Footage Location of Well: feet from the East he South Producing Formation 64 feet from the Ground level Elev. Dedicated Acreage: Vacuum Glorieta Pool 40 4012 Glorieta; Paddock ACTES 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Unitization If answer is "yes" type of consolidation K If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of · this form if neccessary, No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. rases Printed Name Royce D. Mariott Position Division Surveyor Company Texaco Expl. & Prod. Date January 7, 1993 SURVEYOR CERTIFICATION I hereby certify that the well location shown Mabil NNAU on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and S+ # 25 0 correct to the best of my knowledge and 320 belief. Date Surveyed 40 Ac. December 18, 1992 THE PROPERTY OF THE 507 Signature & Seal of Professional Surveyor 9 Certificate No.

JOB Vacuum Glorieta West Unit Location #27 SHEET NO. PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 CALCULATED BY O. Flores DATE 01/04/93 CHECKED BY D. Kelly DATE 01/04/93 1"=50' SCALE. Bloo North 54' East 131 West 2359 F5L 4 34 FEL PHOEASE 100 West Set 1/2" I Rod & Bottle W/T' Post @ Loc. # 27 2359 FSL 4 64' FEL Sec. 26 T-17-5 R-34-E 214 East Elev. 4012 2 95 South ZZZ'EASŁ 224 South

PRODUCT 204 1 (Single Sheets) 20 : 1 (Padded) (AESS) e Inc., Groton Muss 01471 To Older PHONE TOLL FREE 1-800-225-8390

TEXACO EXPLORATION AND PRODUCTION, Inc

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

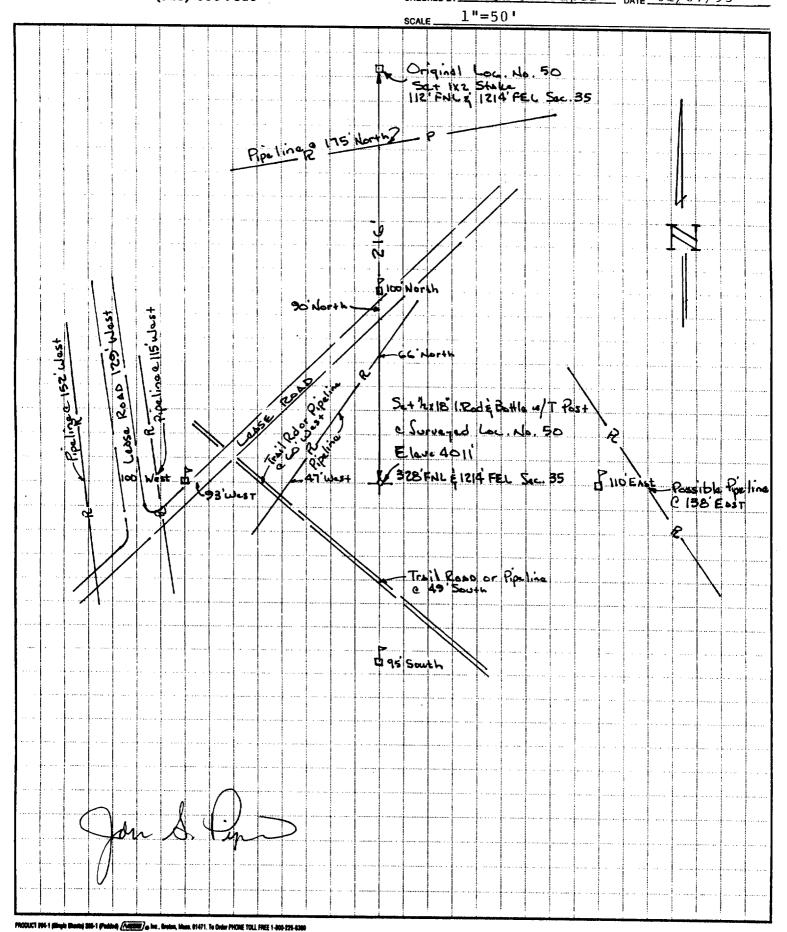
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

perator			Lease				Well No.
	CPL. AND P	ROD. Inc.	VACUUM	GLORIETA	WEST	UNIT	50
Init Letter	Section	Township	Range			County	
A	35	17-South	34-	East	NMPM	Lea	
Actual Footage Loca	tion of Well:						
328		orth line a			feet from	the East	IIIIC
fround level Elev.		g Formation	Pool				Dedicated Acreage:
4011		ta; Paddock		m Glorieta		L	40 Acres
1. Outline	the acreage dedicated	to the subject well by colored	i pencil or hachure m	arks on the plat belov	v.		
2. If more	than one lease is ded	icated to the well, outline each	and identify the own	ership thereof (both	as to worki	ng interest and	royalty).
3. If more	than one lease of diff	ferent ownership is dedicated	o the well, have the is	nterest of all owners	been conso	lidated by com	munitization,
unitiza	tion, force-pooling, etc	27		unitiz	ation		
If answer	Yes []	No If answer is "ye and tract descriptions which					
this form	if neccessary.						
		to the well until all interests he minating such interest, has been			, unitization	n, forced-poolin	g, or otherwise)
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	į			3		John	W. Im
	i			3		Certificate No	
0						7254	John S. Piper
0 330 660	990 1320 1650	1980 2310 2640	2000 1500	1000 500	0	Lea Co	. FB. 6, Pg. 75

Vacuum Glorieta West Unit Location #50

## PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

CHECKED BY J. Stan Piper DATE 01/07/93



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

Form C-102 Revised 1-1-89

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator				Lease				Well No.
TEXACO E	XPL. AND P	ROD. Inc.		VACUUM	GLORIETA	WEST	UNIT	63
Unit Letter	Section	Township	,	Range			County	
Н	35	17-Sou	th	34-	-East	NMPM	Lea	
Actual Footage Loc						- AVAILAY	-	
1340	feet from the No:	rth	line and	1090		feet from	the East	line
Ground level Elev.	Producing	Formation		Pool				Dedicated Acreage:
4010	Glorie	ta; Paddo	ck	Vacuu	um Gloriet	a Poo	1	4 () Acres
1. Outline	e the acreage dedicated	to the subject well	by colored per	cil or hachure n	narks on the plat below	w.		
	e than one lease is dedi							•
	tion, force-pooling, etc.	.7		•	interest of all owners onUnitiz			munitization,
	r is "no" list the owners							
this form	if neccessary.							
	vable will be assigned to a non-standard unit, elim					, unitizatio	n, forced-poolin	g, or otherwise)
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				020003 4414	0		Royce D	. Mariott
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	1				ی			n Surveyor
		=			20.		Company	
	!	=						Expl. & Prod.
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	I						Date Surveyed	
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	1						Professional S	urveyor
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0							7254	John S. Piper
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000	770 1320 1030	1700 2010 20	20	1500	2000 500	0	nea co.	IB. 0, Fq. 70

TEXACO EXPLORATION AND PRODUCTION, Inc. Vacuum Glorieta West Unit Location#63

PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93

1"=50' SCALE Well Pod Edge of 100 North Sat 1/2" XIB" I. Rod & Both w/T POST C Surveyed Coc. No. 63 Eleve 4010 1340 FUL & 1090 FEL SEC. 35 T HO EASE 100 West di 45 nocès No. 14 Edge Original Lac. No. 63 Set GOD hail 1370 FNC & 1135 FOC Sec. 35 1 95 South Guy Wiree 97'S End Power Polace 115' South PRODUCT 2041 (Blogde Shade) SSE-1 (Padded) (ACCESSE) & for , Broken, Mass. 81471. To Order PHONE TOLL FREE 1-306-229-8380

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

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 P.O. Box 2088 Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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TEXACO EXF	L. AND F	ROD. Inc.		VACUUI	M GLORIETA	WEST	UNIT	77
nit Letter S	ection	Township	1	Range			County	
I	35	17-Sou	ıth	34	-East	NMPM	Lea	
ctual Footage Locatio							-	
	eet from the Sc	outh	line and	1226		feet from	the East	IIIIC
round level Elev.		ig Formation	1	Pool	Classiat	a Doo	1	Dedicated Acreage:
4010		eta; Paddo			um Gloriet		l.	Acres
3. If more the unitization   If answer is	nan one lease of did n, force-pooling, et Yes "no" list the owne	fferent ownership is c.? No If an	dedicated to th	e well, have the	vnership thereof (both interest of all owners ion <u>Unitiz</u>	been consol	idated by com	
	e will be assigned	to the well until all			d (by communitization	n, unitization	, forced-pooling	ng, or otherwise)
<u> </u>			emmmm	шинии			OPERAT	OR CERTIFICATION
						51	I hereby onsained here	certify that the informal in in true and complete to vledge and belief.
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			Conoce *H-State 3: #10Y	980.	71.0	I	Position Division Company Texaco Date	on Surveyor Expl. & Prod.
			5 -Phillis	u Retro.  Ale #16/19/4K	177 8 1220 84		I hereby certi on this plat is actual survey supervison, as	YOR CERTIFICATION  fy that the well location sh was plotted from field note s made by me or under nd that the same is true the best of my knowledge
•		THE PARTY PROPERTY AND ADDRESS OF THE PARTY PART	a.mmm	mmmm	40 Ac.		December Signature & S Professional S	er 17, 1992 eal of curveyor
	Paradone		- Date -				1234	John D. Liber
0 330 660 9	990 1320 1650	0 1980 2310 2	1640	000 1500		0	7254	John S. P

#### PIPER SURVEYING COMPANY P.O. Box 60432

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

PRODUCT 194-1 (Blogin Sharin) 200-1 (Problem) (Free Problem) (In term. Strains, Mann. 91471. To Order PHONE TOLL PREE 1-000-225-4300

CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93

1"=50'

100 North WELL Pad Edge Phillips Petro. No. 16 C 59 North 2 Set 1/2×18-1. Rod & BoHle W/T Post e Surveyed Loc. Ho. 77 E lave 4010 75 69 FSL & 1276 FEL Sec. 35 100 West Set 3/8 18 Spile 25 63 FSL & 1330 FEL Sec. 35 th 95 South Ced. 12

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

Form C-102 Revised 1-1-89

Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION NOTICE OF CHANGEIN LOCATION LEASE NO.

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

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator			-	-			Lease						Well No.	
TEXACO EX	KPL.	AN	D PF	ROD.	Inc	. ·	VI	CUUM	GLORI	ETA WE	ST	UNIT	91	
Unit Letter	Sectio			Towns		1	Range	:	7.			County		
T		35		1	7-Sc	outh		34-	East	NN	PM	Lea		
Actual Footage Loca	tion of	Well:		- Annual Control				The same of the sa		A.36.J.	ALALA	4		
1459	feet fr	om the	Soi	uth		line and	1(	) 48		feet f	mon	the East	line	
Ground level Elev.		Pro	oducing	Format	ion		Pool						Dedicated Acre	age:
4010		Glo	riet	ta;	Pado	dock	7	<i>l</i> acuu	m Glor	cieta P	00	1.	4 0	Acres
1. Outline	the ac	reage de	dicated	to the s	ubject w	rell by colored p	encil or h	achure ma	urks on the p	lat below.				
2. If more	than o	ne lease	is dedi	cated to	the wel	l, outline each ar	d identif	y the own	enship thereo	of (both as to w	orki	ng interest and	royalty).	
		ne lease			nership	is dedicated to the	ne well,	have the in	iterest of all	owners been o	oano	lidated by comm	nunitization,	
[zł	Yes	ou poor		No	16	answer is "yes" t	ype of co	onsolidatio	n Uni	itizati	on			
			owners	and trac	ct descri	ptions which have	e actual	y been co	nsolidated. (	Use reverse sie	de of			
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						erest, has been a				unitativit, unitiz	AUUI	4 iorear-pooin	g, or otherwise)	
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#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 NOB Vacuum Glorieta West Unit Location 91

CHECKED BY J. Stan Piper DATE 01/07/93
SCALE 1"=50'

SCALE Pipeline C/20' No. 100 North Pipeline 232' North HIDEASE Set 1/2" KIB" I. Rod & Battle w/T Post a Surveyed Lac. No. 91 Elev- 4010' 1459'FSL & 1048' FEL Sec. 35 d Lease El 95 South Pipeline a loc' South P Farice & 184 Seven

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

Form C-102 Revised 1-1-89

Well No.

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

DISTRICTIII 1000 Rio Brazos Rd., Aztec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Lease

Operator		The State of the S			Lease				Well No.
TEXACO EX	XPL.	AND PR	OD. Inc.		VACUUM	GLORIETA	WEST	UNIT	105
Unit Letter	Section	T	Township		Range			County	
N		36	17-Sou	ith	34-	East	NMPM	Lea	
Actual Footage Loca	ation of We								
453	feet from			line and	1.340		feet from	the West	line
Ground level Elev.		Producing			Pool				Dedicated Acreage:
3999			ta; Pado		Vacuu	-		0.1	4 () Acres
1. Oddine	e the acreag	ge dedicated	to the subject well	by colored per	cil or nachure ma	arks on the plat below	v.		
2. If more	e than one i	lease is dedic	ated to the well, o	each and	identify the own	ership thereof (both a	s to worki	ng interest and	royalty).
3. If mon	e than one l	lease of diffe	rent ownership is	dedicated to the	well, have the in	nterest of all owners l	been conso	lidated by comi	munitization,
unitiza	Yes	pooling, etc.			of	_ Unitiza	tion		
If answer		the owners			ne of consolidation actually been co	nsolidated. (Use revi		[	
this form	if neccessa	ry.							
			the well until all inating such interes			(by communitization	, unitizatio	n, forced-poolin	g, or otherwise)
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104								JOHN	D. than
1340	)	53	- A					Certificate No.	
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0 330 660	990 1.	120 1650	1980 2310 2	640 2	000 1500	1000 500	0	Lea Co.	FB. 7, Pg. 47

PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

JOB Vacuum Glorieta West Unit Location #105

CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93

1"=50' 100 North Sat 1/2 x 18 1. Rod & Bottle w/T Post c Surveyed Loc. No. 105 E ev. = 3999 453 FS4 & 1340' FWL A HOEAS Sat IX2 Stak 403 FSU & 1340 FWL SEC. 36 # 95 South 68' South

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

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

<u>DISTRICT 1</u> P.O. Box 1980, Hobbs, NM 88240

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Sperator					Lease				Well No.	
TEXACO EX	KPL.	AND PE	ROD. Inc.		VACUUM	GLORIETA	WEST	UNIT	108	
Init Letter	Section		Township		Range			County		
P		36	17-Sou	th	34-	East	NMPM	Lea		
Actual Footage Local	tion of We	:И:			1		A.WYALAYA			
213	feet from	the Sou	ıth	line and	351		feet from	the East	line	
Fround level Elev.			Formation		Pool				Dedicated Acrea	ige:
3986		Glorie	eta; Padd	lock	Vacuu	um Glorie	ta Po	01	4 ()	Acres
	the acreas	ge dedicated	to the subject well	by colored per	cil or hachure n	arks on the plat below	v.			
						nership thereof (both a				
unitizat		pooling, etc.				Unitiza	tion	•		
15	Yes				oe of consolidati	Oli				
this form i			and tract description	ons which have	actually been co	onsolidated. (Use rev	erse side of			
			the well until all i	nterests have b	een consolidated	(by communitization	unitization	n, forced-poolin	g, or otherwise)	
or until a	non-standa	ard unit, elin	inating such intere	st, has been ap	proved by the D	ivision.				
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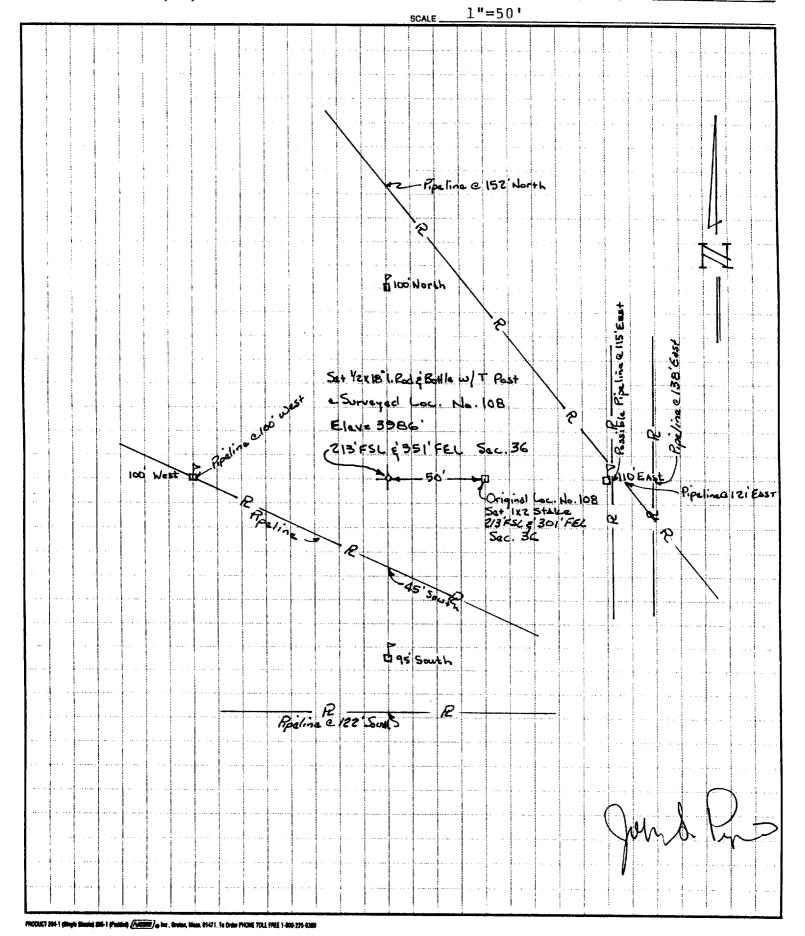
## Joe Vacuum Glorieta West Unit Location #/08

### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 
 SHEET NO.
 1
 OF
 1

 CALCULATED BY
 DOW E Kelly
 DATE
 01/07/93

 CHECKED BY
 J. Stan Piper
 DATE
 01/07/93



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

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

								W. W. E.	
Operator	-			Lease				Well No.	
TEXACO EXI	PL. AND	PROD. I	nc.	VAC	UUM GLOR	IETA WEST	UNIT	121	
	tion	Township		Range			County		
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or until a non-	standard unit, el	iminating such in	sterest, has b	een approved by	the Division.				
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### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

JOB Vacuum Glorieta West Unit Location#12)

SHEET NO.\_ CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93

1"=50

Pipeline ( 137 Nort 100 North Lease Roade 65' Horak Set 1/2×18" I. Rod & Bottle w/T Post a Surveyed Loc. No. 121 E44 = 3986 Q 964 ANC & 90 FEC FILLERSE 126 157 West 7 Original Coc. No. 121

RI Sat 122 Stake

CE 1014 FNU & 140 FEL Sac. R 45 Sout

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

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator				Lease	-			Well No.	
•	DI AND	DDOD	Tng		. GLODIEM	LIDO	m tixirm		
	PL. AND	Township	THC.		M GLORIETA	WES		122	
Unit Letter Sect	tion		,	Range			County		
Actual Footage Location of	of Well:	18-	South	35-E	ast	NMPN	11	Lea	
_		I- I-		1061			. Wost		
845 feet Ground level Elev.	from the NO	Formation	line and	Pool		leet Iron	the West	line Dedicated Acre	age:
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			Paddock  well by colored per		irks on the plat below.		1.1.	37.00	Acres
		•			emhip thereof (both as		ing interest and	royalty).	
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JOB Vacuum Glorieta West Unit Location#12?

#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 SHEET NO. 1 OF 1

CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93

1"=50' SCALE - Passible Pipeline a 140' North P 100 North Set 1/2" X 18" 1. Red & Bettle w/ 7 Post @ Surveyed Loc. No. 122 Elau: 3983 845' FNL & 1061 FWL Sec. 6) BIIDEASE 100 West di Ripaline @ 62' West Apalinee 67'500 R 18'5 Possible Pizzline ellissour. Original Location Set 1x2 Stake 1000 FAC & 1136 FWC

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease	Manager Charles and Assessment Control			Well No.	
TEXACO	EXPL	. AND	PROD.	Inc.	VACIIII	M GLORIETA	WES	T UNIT	123	
Unit Letter	Section		Township	,	Range			County	1	
C	6		18-	South	35-E	ast	NMPN	1	Lea	
Actual Footage Loc	ation of W	ell:			The state of the s					
1005	feet from	the No:	rth	line and	2244		feet from	n the West	line	
Ground level Elev.		Producing	Formation		Pool				Dedicated Acre	age:
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SHEET NO. PIPER SURVEYING COMPANY P.O. Box 60432 CALCULATED BY O. Flores 01/04/93 \_ DATE\_ MIDLAND, TEXAS 79711 (915) 550-7810 D. Kellv \_\_\_ DATE\_ 01/04/93 CHECKED BY\_\_\_ 1"=50' SCALE Lse. Rd@ 82 West 140 East O.H. Elec, IDA'EASL 100 North Possible TL @ 143 West 68 Horth Set 1/2" I. Rod w/T'Post & Bothle @ Loc. # 123  $Elev = 3973^{\frac{3}{2}}$ Alt # 2 1005 FHL & 2244 FWL T- 18-5 R-35-E 54C. 6 48 West I 110 EAST 100 West 100 Alt #1 Loc 1030 FULL 2244 FWL Set 1x2" 化 75, 43 South Original Loc. 1x2 1080 FNL \$ 2344' AWL 77'South 195 South 153West Possible 72 66 West

PRODUCT 204-1 (Single Sheets) 206-1 (Padded) (Pa

TEXACO EXPLORATION AND PRODUCTION, INC
JOB Vacuum Glorieta West Unit Location #123

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

Form C-102 Revised 1-1-89

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator			Lease				Well No.		
TEXACO EXPL.	AND PROD. I	nc.	VACIIIIM	GLORIETA	WEST	UNIT	124		
Unit Letter Section	Township	1	Range	OHORELLIA	112315	County	A GO A		
D.		n+h	35-Ea	c+	> 13 4 700 4		Lea		
Actual Footage Location of Well	18-So	util	33 Ea	51.	NMPM		JC U		
			1519			Last	200		
1020 feet from the Ground level Elev.	he North Producing Formation	line and	Pool	10	eet from	the Habe	line Dedicated Acreage:		
		Marine a							
	Glorieta: P			Glorieta	Poo.	L	40 Acres		
1. Outline the acreage	dedicated to the subject we	ell by colored pen	cil or hachure man	ks on the plat below.					
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).									
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?									
Yes Yes			e of consolidation						
this form if neccessar	the owners and tract descrip	ctions which have	actually been cons	iolidated. (Use reveri	se side of				
	assigned to the well until a	Il interests have h	en consolidated ()	v communitization u	nitization	formed poolin	g or otherwise)		
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JOB Vacuum Glorieta West Unit Location #124 SHEET NO. PIPER SURVEYING COMPANY P.O. Box 60432 CALCULATED BY O. Flores 01/04/93 .... DATE \_\_ MIDLAND, TEXAS 79711 (915) 550-7810 D. Kellv DATE\_ 01/04/93 CHECKED BY\_ 1"=50' SCALE se Rd 151 North 100 North O.H. Elec 101 EAst Possible TR @ 91 West Set 12 T. Rod (Bottle w) + Post Q Loc # 124 Elev= 39764 Original Loc. Set Ixz A1++1 1020' FNL \$ 1519 FEL 1020 FNL & 1419 FEL T- 18-5 R-35-E Sec. 6 B 110 EAST 100 West th 100 4L'E LSE Rd. 195 South 137 South

PRODUCT 204-1 (Single Sheets) 205-1 (Padded) (ACCES) Inc. Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

TEXACO EXPLORATION AND PRODUCTION, Inc



## ાર દેશકોઉંડ્ર, Minerals and natural resources department

93 JAN 2: NM 901 2000 SERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR 1-19-93

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501				
RE: Proposed:  MC DHC NSL X amend NSP SWD WFX PMX  Gentlemen:  I have examined the application	for the:	)aceuem	Alacusta West	U\$ #214061739 # 58 # 357739 # 63   H 357739 # 77-I 357739 # 91-I 3577-34 # 106 & 3617-34 #108-P 3617-34
Newy Co Exist front Anc.				#121-1 1-18 34
Operator System from Anc. Lease	e & Well No.	Unit	S-T-R	#122-6-18-35
and my recommendations are as fo			#124-18-35	
		·		<del></del>
Yours very truly,				

Supervisor, District 1

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division

Order No. R-9714 for the Vacuum-Glorieta West Unit Well No. 68.

Dear Mr. Basham:

Reference is made to your letter dated January 11, 1993 requesting a second change to the location for the Vacuum-Glorieta West Unit Well No. 68 which was previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico, by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

By letter dated January 8, 1993, the Division amended the original well location for the subject well from 1491 feet from the North line and 280 feet from the East line (Unit H) of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum-Glorieta Pool, Vacuum-Glorieta West Unit, Lea County, New Mexico, to a new location of 1728 feet from the North line and 351 feet from the East line (Unit H) of said Section 36. It is my understanding at this time that Texaco is seeking yet another change for the proposed location because of another pipeline and for "undisclosed geological reasons."

By the authority granted me under the provisions of General Rule 104.F., the location for the No. 68 well is hereby approved to be drilled 1517 feet from the North line and 139 feet from the East line (Unit H) of said Section 36.

Page 2

Further, Exhibit "A" of Division Order No. R-9714 and Division letter dated January 8, 1993 shall be amended to reflect this change.

All other provisions of said Order No. R-9714 and said Division letter dated January 8, 1993 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay

Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach

File: Case No. 10516



**Texaco USA**Producing Department PG Bcx 3109
Midland TX 79702-3109 Midland Division

OFL CONSERVE MEDITISION 551 /50

193 JR4 111 AM 8 50

Amendment
Amendment

of 1/8/93

January 11, 1993

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well No. 68 Amended Location Division Order No. R-9714 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

Texaco respectfully submits, for administrative approval, the amended drilling location for the captioned well.

Attached is the amended Form C-102 for Well No. 68. This well had to be moved from its location that was applied for in our letter dated December 17, 1992 because of pipelines and for geological reasons.

OLD LOCATION: 1728' FNL, 351' FEL, SEC. 36, T-17-S, R-34-E.

NEW LOCATION: 1517' FNL, 139' FEL, SEC. 36, T-17-S, R-34-E.

Yours very truly,

C.P. Basham/cw4

C. P. Basham Drilling Operations Manager

CWH: cwh

cc: NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	-				Lease	*************************			Well No.	***************************************
TEXACO EX	XPL.	AND P	ROD. Inc.		VACUUM	GLORIETA	WEST	UNIT	68	
Unit Letter	Section	on	Township	,	Range			County		
Н		36	17-Sou	th	34-	East	NMPM	Lea		
Actual Footage Loca	ation of	Well:		THE RESERVE OF THE PERSONS ASSESSED.						
1517	feet f	rom the NO	cth	line and	139		feet from	the East	line	
Ground level Elev.			g Formation		Pool				Dedicated Acre	age:
3989			eta; Padd		Vacuu		eta Po	o.l	4 ()	Acres
1. Outline	e the ac	reage dedicated	to the subject well	by colored per	ocil or hachure m	arks on the plat bel	ow.			
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#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 TEXACO EXPLORATION AND PRODUCTION, Inc

JOB Vacuum Glorieta West Unit Location #68

 SHEET NO.
 1
 OF.
 1

 CALCULATED BY.
 O. Flores
 DATE.
 01/04/93

 CHECKED BY.
 D. Kellv
 DATE.
 01/04/93

1"=50' # 58 CVU Multiple LiNES @ 142' North floo North R@ 166 West H2.63' North - Original Loc. 1491 FNL & 280 FEL For Alt. D 110 EAST 100 West Set 1/2" I. Rod & Bottle W TPost @ Log # 68 Elev. = 3988 2 1517 FNL 4 139 FEL Sec. 36 T-17-5 R+34-E Pe 115 West TRQ 152 West -O.H. Elec. IDOE 237 195 South AIL #1 Loc. 1728 FUL & 351 FEL



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**DIL CONSERVATION DIVISION** 

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECHETARY

January 8, 1993

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

Texaco Exploration and Production Company Midland, TX 79702-3109 P.O. Box 3109

Attention: C. P. Basham, Drilling Operations Manager

2 Administrative Amendment Division Order No. R-9714. RE:

Dear Mr. Basham:

Reference is made to your letter dated December 17, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to five certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico. Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations of five particular wells due to minor difficulties encountered when actually staking the locations. By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Texaco Exploration and Production Attention: C. P. Basham January 8, 1993 Page 2 By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Lease Name	Corrected Footage	U-L-S-T-R	VGWU Well No.
Bridges State	1410' FSL - 1300' FWL	L-24-17S-34E	7
NM "Q" State	1377' FSL - 1646' FEL	J-25-17S-34E	41
NM "O" State	1728' FNL - 351' FEL	H-36-17S-34E	89
NM "O" State	2576' FSL - 149' FEL	I-36-17S-34E	82
State "I"	1426' FSL - 199' FWL	L-36-17S-34E	92

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

William J. LeMay

Sincerely,

**Director** 

WJL/MES/jc

Oil Conservation Division - Hobbs File: Case No. 10516 ပ္ပ

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach



## CHE COENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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OIL CONSERVATION DIVISION

193 JAN 21 AM 9 14 HOBBS DISTRICT OFFICE

1-15-93

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501  RE: Proposed:  MC DHC NSL NSP SWD WFX		
Gentlemen:  I have examined the applicate from the following formulations are as the second following formulations are as the second following formulations are as the second following following formulations are as the second following f	Vacuum Blerieta West Unit Lease & Well No. Unit S-T-R	<u>#68-H_361</u> 7-3;
Yours very truly,  Jerry Sexton		



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

March 26, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702

Attention: C.P. Basham

Administrative Order DD-78(NSBHL) and the Administrative Amendment of Division Order No. R-9714

#### Dear Mr. Basham:

Under the provisions of General Rule 111 (c), (d) and (e), Texaco Exploration and Production Company made application to the New Mexico Oil Conservation Division on January 28 and March 4, 1993, for authorization to directionally drill its proposed Vacuum Glorieta West Unit Well No. 107, Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico. Said well is to be utilized as a water injection well in said unit and was previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, to be drilled at an unorthodox surface location 184 feet from the South line and 1382 feet from the East line (Unit O) of Section 16, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

Said Division Order No. R-9714 further authorized Texaco to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Range 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

#### The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;
- (2) At this time Texaco finds it necessary to locate this well at a different surface location than originally approved by said Order No. R-9714 as to avoid their own "gas plant" that it's personnel evidently did not know existed at the time said Case No. 10516 was brought to hearing before the Division.

- Order No. R-9714 for the purpose of completing an efficient injection/production pattern within said waterflood project area. However, the applicant requested a variance of an additional 100 feet from the "50-foot radius rule", stipulated in General Rule 111.E for directional drilling cost saving considerations.
- (4) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 have either been or will be met; and
- (5) Notification is not necessary in this instance since the well is within the applicant's Vacuum Glorieta West Unit Area and there are no immediate offset operators other than Texaco.
- (6) Further, since there are no offset operators, approval of this application should not threaten correlative rights.

#### IT IS THEREFORE ORDERED THAT:

(1) The applicant, Texaco Exploration and Production Company, is hereby authorized to directionally drill its Vacuum Glorieta West Unit Well No. 107, the surface location of which shall be 183 feet from the South line and 931 feet from the East line (Unit P) of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, by kicking off from the vertical at a depth of approximately 1470 feet, and drilling in such a manner as to bottom in the Vacuum Glorieta Pool within 150 feet of a point 184 feet from the South line and 1382 feet from the East line (Unit O) of said Section 36, being an unorthodox bottom-hole injection well location.

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED HOWEVER THAT</u> during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

- (3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- (4) Further, Exhibit "A" of said Division Order No. R-9714 shall be amended to reflect the above-described well location changes.
- (4) All other provisions of Order No. R-9714 shall remain in full force and effect until further notice.
- (5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

Oil Conservation Division - Michael E. Stogner

File: Case No. 10516



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### **OIL CONSERVATION DIVISION**



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

November 23, 1994

Texaco Exploration & Production Inc. Midland Producing Division P.O. Box 3109 Midland, Texas 79702

Attention: Mr. J. A. Head

Re: Positive Production Response

Vacuum Glorieta West Unit

Dear Mr. Head:

We have received your request dated November 4, 1994, to certify a positive production response from the Vacuum Glorieta West Unit Waterflood Project. Please be advised that the subject application will be set for hearing before a Division Examiner on January 5, 1995. The reason for this action is that your application is the first of its kind received by the Division, and, analysis of the data at a hearing will aid the Division in establishing an administrative procedure.

If you should have any questions, please contact me at (505) 827-7131.

Sincerely,

David Catanach

Engineer

xc: Case File-10516

Mr. William F. Carr





#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

July 29, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division Order No. R-9714

for the Vacuum Glorieta West Unit Well No. 123.

#### Dear Mr. Basham:

Referenced is made to your letter dated July 28, 1993 requesting a third change to the location to the location for the Vacuum-Glorieta West Unit Well No. 123 which was previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992.

Said Division Order No. R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico, by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

By letter dated February 3, 1993, the Division amended the original well location for the subject well from 1080 feet from the North line and 2344 feet from the West line (Unit C) of Section 6, Township 18 South, Range 35 East, NMPM, Vacuum-Glorieta Pool, Vacuum-Glorieta West Unit, Lea County, New Mexico, to a new location of 1005 feet from the North line and 2244 feet from the West line (Unit C) of said Section 6. It is my understanding at this time that Texaco is seeking another change for the proposed location in order to utilize an existing well pad for the Marathon Oil Company Warn State A/C-2 Well No. 21.

By the authority granted me under the provisions of General Rule 104.F., the location for the No. 123 well is hereby approved to be drilled 1265 feet from the North line and 2035 feet from the West line (Unit C) of said Section 6.

Further, Exhibit "A" of Division Order No. R-9714 and Division letter dated February 3, 1993 shall be amended to reflect this change.

All other provisions of said Order No. R-9714 and said Division letter dated February 3, 1993 shall remain in full force and effect until further notice.

Sincerely,

Michael E. Stogner

Chief Hearing Officer/Engineer

MES/amg

cc: Oil Conservation Division - Hobbs

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach

File: Case No. 10516



Texaco Exploration and Production inc Midland Producing Division 500 N Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

July 28, 1993

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well No. 123 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

#### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, an amended drilling location for the captioned injection well under Order No. R-9714.

Well No. 123 was moved to be further from a pipeline and to share Marathon's newly constructed well pad.

Attached is Form C-102 and a "detail" drawing showing the amended location for the well.

Yours very truly,

C.P. Bacham/cwH

C. P. Basham Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

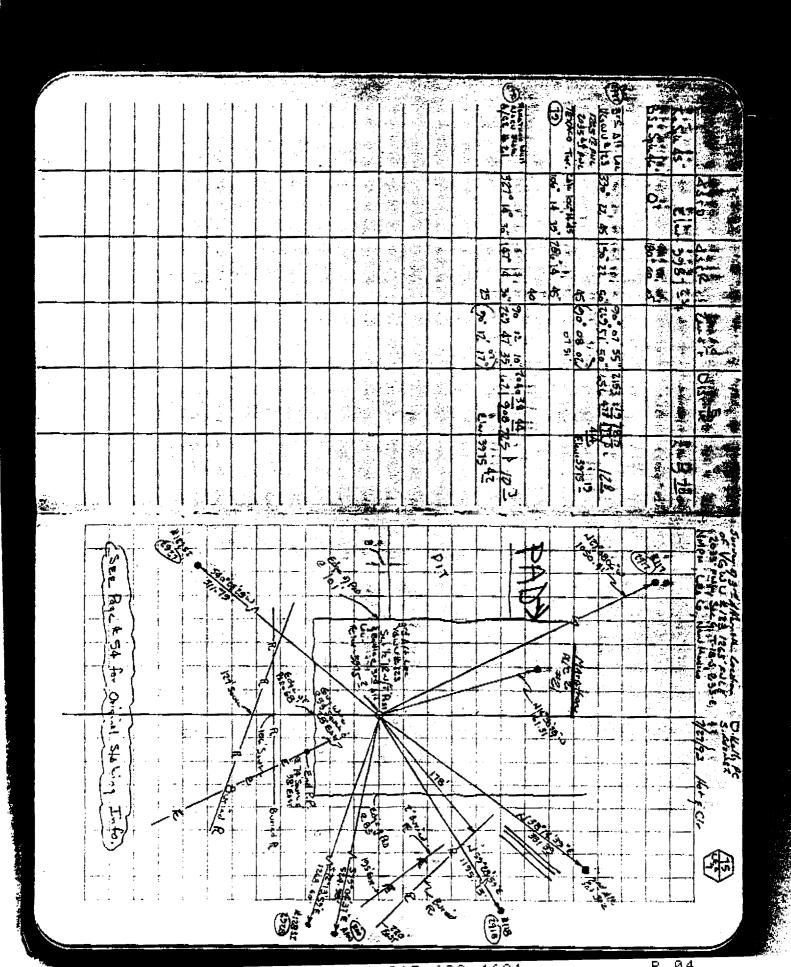
DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM: \$7410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

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### **FAX TRANSMITTAL COVER SHEET**

NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 7/28/93 XURGENT PROUTINE NO. OF PAGES C+ 3
MESSAGE TO: MR MICHAEL E. STOGNER
TELEPHONE NO FAX MACHINE NO
DEPT./DIV./SUBS.
LOCATION ROOM NO
MESSAGE FROM: C WADE HOWARD
TELEPHONE NO FAX MACHINE NO
DEPT./DIV./SUBS.
LOCATION ROOM NO
SENDING DEPT. APPROVALTIME TRANSMITTED
☐ RETURN ORIGINAL VIA INTER-OFFICE MAIL ☐ RETURN ORIGINAL CALL SENDER TO PICK UP
ADDITIONAL COMMENTS:
If you have try questions, pleas call at
(915) 688 - 4606
Thanks,
Wale

Care No. 10516



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

March 25, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Administrative Amendment

to Division Order No. R-9714

#### Dear Mr. Basham:

Reference is made to your letters dated January 13, February 8, and February 9, 1993 requesting exceptions, pursuant to Division General Rule 104.F(1), for two injection well locations, both previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order No. R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico, by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations for its Vacuum Glorieta West Unit Well Nos. 27 and 106 as to avoid overhead electric utility lines that evidently Texaco's personnel were not aware existing at the time said Case No. 10516 was brought before the Division.

By the authority granted me under the provisions of General Rule 104.F., the following unorthodox injection well locations are hereby approved. Further Exhibit "A" of said Order No. R-9714 shall be amended to reflect the following location changes:

Lease Name	Corrected Footage Location	U-S-T-R	VGWU Well No.
Bridges State	2359' FSL - 64' FEL	I-26-17S-34E	27
NM "O" State NCT-1	310' FSL - 2630' FEL	O-36-17S-34E	106

Texaco Exploration and Production Company

Attention: C.P. Basham

March 25, 1993

Page 2

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay,

Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

Oil Conservation Division - Michael E. Stogner

File: Case No. 10516



PO Box 3109 Midland TX 79702-3109 SIL CONSERVATION DIVISION

RELE VED

'93 FE- 11 FM 9 00

February 8, 1993

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well No. 27 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

#### Gentlemen:

In reference to your letter dated February 4, 1993, the location given for the captioned well in Exhibit "A" under Division Order No. R-9714 was in error. The correct location was 2359' FSL and 34' FEL. When the well was staked, a pipeline made it necessary to move the well 30' west. The amended location for this well is 2359' FSL and 64' FEL of section 26, T-17-S, R-34-E.

Attached is Form C-102 and a "detail" drawing showing the amended location for this well.

Yours very truly,

C. P. Basham/CWH

C. P. Basham Drilling Operations Manager

CWH:



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Application to amend an injection well location approved by Division Order No. R-9714. Vacuum-Glorieta West Unit

Well No. 27.

Dear Mr. Basham:

The proposed amendment for the subject well appears to be somewhat more involved than simply moving to avoid a pipeline. Division Order No. R-9714 approved the No. 27 well to be drilled 1171 feet from the South line and 34 feet from the East line of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico. The plat (see copy attached) submitted in your application dated January 13, 1993 shows the original location to be 2359 feet from the South line and 34 feet from the East line; this is a 1188-foot difference.

Please provide me a statement outlining the reason for this discrepancy.

Sincerely

Michael E. Stogner

MES/amg

cc: Oil Conservation Division - Hobbs

# EXHIBIT "A" DIVISION ORDER NO. R-9714 VACUUM GLORIETA WEST UNIT APPROVED NEWLY DRILLED INJECTION WELLS

LEASE NAME	LOCATION	ULSTR	VGWU WELL NO.
Bridges State	1360' FSL & 1300' FWL	M-24-17S-34E	4
_	1209' FSL & 2582' FWL	N-24-17S-34E	5
Bridges State	73' FNL & 1411' FWL	C-25-17S-34E	9
Bridges State Yucca State	100' FSL & 2628' FWL	0-24-17S-34E	10
	246' FNL & 1554' FEL	B-25-17S-34E	11
Bridges State	1328' FNL & 1399' FWL	F-25-17S-34E	17
Bridges State	1651' FNL & 2543' FWL	F-25-17S-34E F-25-17S-34E	18
Bridges State	1502' FNL & 1520' FEL	G-25-17S-34E	19
Bridges State NM T State NCT-1	1541' FNL & 181' FEL	H-25-17S-34E	20
	1330' FNL & 1283' FWL	E-30-17S-35E	0.4
NM N State			
Bridges State	1171' FSL & 34' FEL	I-26-17S-34E	27
McAllister State	2304' FSL & 1127' FWL	L-25-17S-34E	28
McAllister State	2522' FSL & 2283' FWL	K-25-17S-34E	29
NM Q State	2305' FSL & 1391' FEL	J-25-17S-34E	30
Swiggart	2520' FSL & 128' FEL	1-25-17S-34E	31
McAllister State	2387' FSL & 51' FEL	M-25-17S-34E	38
McAllister State	1194' FSL & 1055' FWL	M-25-17S-34E	39
McAllister State	1570' FSL & 2404' FWL	K-25-17S-34E	40
NM Q State	1437' FSL & 1646' FEL	J-25-17S-34E	41
NM N State	1250' FSL & 8 FWL	M-30-17S-35E	42
NM N State	1453' FSL & 1247' FWL	L-30-17S-35E	43
State H-35	112' FNL & 1214' FEL	A-35-17S-34E	50
State H-35	24' FNL & 31' FEL	A-35-17S-34E	51
McAllister State	65' FSL & 1587' FWL	N-25-17S-34E	52
McAllister State	65' FSL & 2350' FWL	N-25-17S-34E	53
NM Q State	7' FSL & 1693' FEL	O-25-17S-34E	54
NM N State	177' FSL & 52' FWL	M-30-17S-35E	55
State H-35	1370'FNL & 1135' FEL	A-35-17S-34E	63
NM O State NCT-1	1484' FNL & 204' FWL	E-36-17S-34E	64
NM O State NCT-1	1472' FNL & 1492' FWL	F-36-17S-34E	65

		•	VGWU
LEASE NAME	LOCATION	ULSTR	WELL NO.
NM O State NCT-1	1690' FNL & 2577' FWL	F-36-17S-34E	66
NM O State NCT-1	1435' FNL & 1408' FEL	G-36-17S-34E	67
NM O State NCT-1	1491' FNL & 280' FEL	H-36-17S-34E	68
Santa Fe Battery 2	1502' FNL & 1203' FWL	E-31-17S-35E	69
State H-35	2569' FSL & 1326' FEL	H-35-17S-34E	77
NM O State NCT-1	2491' FNL & 127' FWL	E-36-17S-34E	78
State VB	2461' FSL & 1351' FWL	K-36-17S-34E	79
NM O State NCT-1	2552' FNL & 2504' FEL	G-36-17S-34E	80
NM O State NCT-1	2466' FSL & 1505' FEL	J-36-17S-34E	81
NM O State NCT-1	2576' FSL & 82' FEL	I-36-17S-34E	82
M.E. Hale	1459' FSL & 1148' FEL	1-35-17S-34E	91
State I	1451' FSL & 149' FWL	L-36-17S-34E	92
State VB	1723' FSL & 1575' FWL	K-36-17S-35E	93
NM O State NCT-1	1525' FSL & 2591' FEL	J-36-17S-34E	94
NM O State NCT-1	1519' FSL & 1548' FEL	J-36-17S-34E	95
NM O State NCT-1	142' FSL & 214' FEL	I-36-17S-34E	96
Santa Fe Battery 2	1419' FSL & 1225' FWL	L-31-17S-35E	97
NM O State NCT-1	361' FSL & 300' FWL	M-36-17S-34E	104
NM O State NCT-1	403' FSL & 1340' FWL	N-36-17S-34E	105
NM O State NCT-1	310' FSL & 2542' FEL	0-36-17S-34E	106
NM O State NCT-1	184' FSL & 1382' FEL	0-36-17S-34E	107
NM O State NCT-1	213' FSL & 301' FEL	P-36-17S-34E	108
Warn State AC 2	96' FNL & 2498' FWL	C-6-18S-35E	109
NM R State NCT-1	74' FNL & 56' FEL	A-6-18S-35E	110
NM L State	1102' FNL & 1570 FEL	B-1-18S-34E	120
NM L State	1014' FNL & 140' FEL	A-1-18S-34E	121
Warn State AC 2	1000' FNL & 1136' FWL	D-6-18S-35E	122
Warn State AC 2	1080' FNL & 2344' FWL	C-6-18S-35E	123
NM R State NCT-1	1020' FNL & 1419' FEL	B-6-18S-35E	124

#### EXISTING WELL TO BE CONVERTED TO INJECTION

Bridges State No. 113 30' FNL & 830' FWL E-24-17S-34E 1



Texaco USA
Producing Department
Midland Division

PO 80x 3109 Midland TX 73713-3109

January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. (27), 50, 63, 77, 91, 105,
106, 108, 121, 122, 123, and 124
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

#### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 27, 50, 91, 105, 106, 108, 121, 122, and 123 were moved because of pipelines. Well Nos. 63 and 124 were moved because of electric lines. Well No. 77 was moved to clear Phillip's M. E. Hale Well No. 16.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cw4

C. P. Basham
Drilling Operations Manager

#### CWH:

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM \$2210

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

DISTRICT | P.O. BOX 1980, Hobbs, NM 88240

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

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SHEET NO. PIPER SURVEYING COMPANY P.O. Box 60432 CALCULATED BY O. Flores DATE 01/04/93 MIDLAND, TEXAS 79711 (915) 550-7810 D. Kellv DATE 01/04/93 1"=50' SCALE \$ 100 North 54 East 2359 F5L 4 34 FEL 100 West PIIOEASE Set 1/2" I Rod & Bottle W/T' Post e Loc. # 27 2359 FGL 4 64 FEL Sec. 26 T-17-5 R-34-E 214 East Elev. 4012 3 ZZZ'EASt

PRODUCT 204 I (Single Sheets) 205 1 (Padded) (ARSING) a list. Groton Muss 01471 To Order PHONE TOLL FREE 1-800-225 6380

TEXACO EXPLORATION AND PRODUCTION, Inc.
Job Vacuum Glorieta West Unit Location #27

224 South



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE:

Application to amend an injection well location approved by Division Order No. R-9714. Vacuum-Glorieta West Unit Well No. 27.

Dear Mr. Basham:

The proposed amendment for the subject well appears to be somewhat more involved than simply moving to avoid a pipeline. Division Order No. R-9714 approved the No. 27 well to be drilled 1171 feet from the South line and 34 feet from the East line of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico. The plat (see copy attached) submitted in your application dated January 13, 1993 shows the original location to be 2359 feet from the South line and 34 feet from the East line; this is a 1188-foot difference.

Please provide me a statement outlining the reason for this discrepancy.

Sincerely,

Michael E. Stogner

MES/amg

cc: Oil Conservation Division - Hobbs

# EXHIBIT "A" DIVISION ORDER NO. R-9714 VACUUM GLORIETA WEST UNIT APPROVED NEWLY DRILLED INJECTION WELLS

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Bridges State	1360' FSL & 1300' FWL	M-24-17S-34E	4
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Bridges State	73' FNL & 1411' FWL	C-25-17S-34E	9
Yucca State	100' FSL & 2628' FWL	0-24-17S-34E	10
Bridges State	246' FNL & 1554' FEL	B-25-17S-34E	11
Bridges State	1328' FNL & 1399' FWL	F-25-17S-34E	17
Bridges State	1651' FNL & 2543' FWL	F-25-17S-34E	18
Bridges State	1502' FNL & 1520' FEL	G-25-17S-34E	19
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McAllister State	2304' FSL & 1127' FWL	L-25-17S-34E	28
McAllister State	2522' FSL & 2283' FWL	K-25-17S-34E	29
NM Q State	2305' FSL & 1391' FEL	J-25-17S-34E	30
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State H-35	112' FNL & 1214' FEL	A-35-17S-34E	50
State H-35	24' FNL & 31' FEL	A-35-17S-34E	51
McAllister State	65' FSL & 1587' FWL	N-25-17S-34E	52
McAllister State	65' FSL & 2350' FWL	N-25-17S-34E	53
NM Q State	7' FSL & 1693' FEL	O-25-17S-34E	54
NM N State	177' FSL & 52' FWL	M-30-17S-35E	55
State H-35	1370'FNL & 1135' FEL	A-35-17S-34E	63
NM O State NCT-1	1484' FNL & 204' FWL	E-36-17S-34E	64
NM O State NCT-1	1472' FNL & 1492' FWL	F-36-17S-34E	65

January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. (27), 50, 63, 77, 91, 105,
106, 108, 121, 122, 123, and 124
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

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Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwa

C. P. Basham
Drilling Operations Manager

CWH:

cc: NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

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

# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM \$1210

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

EXACO EXPL. AND PROD. Inc.  VACUUM GLORIETA WEST UNIT 27  Coarsy  26 177-South 34-East Norm  Lea  1 Footage Location of Well:  1 Footage Location of Well:  Producing Formation  Footage Location of Well:  Producing Formation  Footage Location of Well:  Producing Formation  Footage Location of Well:  Producing Formation  Footage Location of Well:  Producing Formation  Footage Location  Lea  1. Outline the surge decisions to the subject well by solored peaks or because marks on the pict below.  2. If more then one issue is deficiented to the well, unlike sock and identify the organization marks on the pict below.  2. If more then one issue is deficiented to the well, unlike sock and identify the organization marks on the pict below.  2. If more then one issue is deficient or well, unlike sock and identify the organization to the well, unlike sock and identify the organization marks on the pict below.  2. If more then one issue is deficient to the well, unlike sock and identify the organization to the well, unlike sock and in organization to the unlike social and included and inclu			VII DECEMBE UNCO		T DOURSE NE OI I NO PA			- Carana	
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Acres   See   From the   South   line and   6.4   (res   from the   East   line   1.5   1.	T		•	_	A-Fagt		т.	ea	
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TEXACO EXPLORATION AND PRODUCTION, F. Vacuum Glorieta West Unit Location #2 PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 CALCULATED BY O. Flores DATE 01/04/93 CHECKED BY D. Kelly DATE 01/04/93 1"=50' B100 North -54' East 131 West original 100 West PIIOEASE Set 1/2" I Rod & Bottle W/T' Post @ Loc. # 27 2359 FSL 4 64' FEL Sec. 26 T-17-5 R-34-E 214 EAST Elev. 4012 3 D 95 South 222 EAST

224 South



# ार **ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

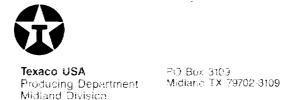
# 193 JAN 2 AM 9014 CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR 1-19-93

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501			
RE: Proposed:  MC DHC NSL NSP SWD WFX PMX	Villaun-	Hamte Was	101 #21 1 1111 * # 21    35 <sup>-17 3</sup> # 63    35 <sup>17 3</sup> # 97-I 35 <sup>17 3</sup>
Gentlemen:			# 9/ I 35-17-34 # 106 6 3617 34
I have examined the application for the:			#108-17-34
Operator Lease & Well No.			#121-1) 1-14 30
Operator Lease & Well No.	Unit	S-T-R	#12212 3 19 35 #1232 6 8 35
and my recommendations are as follows:			#124-461335
D.K			
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Yours very truly,			

Supervisor, District 1



OIL CONSERVE HON DIVISION REGE VED

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February 9, 1993

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well No. 106 Division Order No. R-9714 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

In reference to your letter dated February 4, 1993, this well was moved 2' to the east to be 10' off of the quarter section line. The new location of the well is 310' FSL and 2630' FEL of section 36, T-17-S, R-34-E. Attached is the amended plat and a "detail" drawing of the location.

Yours very truly,

C.P. Basham / CWH

C. P. Basham Drilling Operations Manager

CWH: cwh

cc: OCD - Hobbs, NM

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

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

1000 Rio Brazos Rd., Aziec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Well No.				
TEXACO EXI	PL. AND	PROD. Inc.		VACUUM	GLORIETA	WEST	UNIT		106			
Unit Letter !	Section	Township	٠.	Range			County					
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Actual Footage Locati	on of Well:			40-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		141411 141						
	feet from the	South	line and	2630		feet from	East	line				
Ground level Elev.	Produ	icing Formation		Pool				Dedicated Acre	age:			
3992		rieta; Padd			a @Glorie		ol	40	Acres			
1. Outline t	he acreage dedic	ated to the subject well	by colored pen	cil or hachure man	ks on the plat bel	ow.						
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization,												
unitizatio	unitization, force-pooling, etc.?  Yes No If answer is "yes" type of consolidation Unitization											
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If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of												
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or until a non-standard unit, eliminating such interest, has been approved by the Division.												
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# Vacuum Glorieta West Unit Location 106

PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

SHEET NO. 1 OF 1

CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93

1"=50' 100 North Sat 12" X 18" ( . Rad & Bottle w/T Post C Surveyed Loc No. 106 Elev. 3992' 310 FSL & 2630 FEU Sec. 367 100 West A 110 East 88 ipalina a 149 East 310'FSLE 2542'FEL 195 South



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**OIL CONSERVATION DIVISION** 



BRUCE KING GOVERNOR ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Application to amend an injection well

location approved by Division Order No. R-9714. Vacuum-Glorieta West Unit

Well No. 106.

Dear Mr. Basham:

I am returning the subject application to you at this time. As you know, the rules of the Division (General Rule 104.F.(1)) do not allow for the drilling of wells within 10 feet of section lines, quarter-section lines, quarter-quarter section lines or lot lines.

This application will not be considered under any circumstances until the well location is moved a minimum of ten feet off of the quarter section line separating the SE/4 and SW/4 of Section 36. At that time, the Division will reconsider your request.

Sincerely,

Michael É. Stogner

MES/amg

cc: Oil Conservation Division - Hobbs



Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109

--- 10 33

January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 27, 50, 63, 77, 91, 105,
106, 108, 121, 122, 123, and 124
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

#### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 27, 50, 91, 105, 108, 121, 122, and 123 were moved because of pipelines. Well Nos. 63 and 124 were moved because of electric lines. Well No. 77 was moved to clear Phillip's M. E. Hale Well No. 16.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwa

C. P. Basham Drilling Operations Manager

#### CWH:

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

<u>DISTRICT J</u> P.O. Box 1980, Hobbs, NM 88240

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	All Dista	nces must be from the outer	boundaries of the section			
Operator		Lease		Well No.		
TEXACO EXPL.	AND PROD. Inc.	VACUUM	1 GLORIETA WES	TUNIT 106		
Unit Letter Section	on Township	Range	/	County		
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310 feet fr	rom the South	line and 2632	feet fro	om the East line		
Ground level Elev.	Producing Formation	Pool	leagh	Dedicated Acreage:		
3992	Glorieta; Pado	lock Vacui	um Glorieta P	2001 40 Acres		
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If answer is "no"	list the owners and tract descripti	ons which have actually been co	onsolidated. (Use reverse side	e of		
this form if neco						
	andard unit, eliminating such intere			tion, forced-pooling, or otherwise)		
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	13	- 74	-75	January 7, 1993		
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				Signature & Seal of		
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# GONS ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

RECE /ED

OIL TO CHIVATEDE DIVISION HOBBS DISTRICT OFFICE

'93 FE9 16 AM 9 32

**BRUCE KING** GOVERNOR

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed:  MC DHC NSL X amend NSP SWD WFX PMX
Gentlemen:
I have examined the application for the: Leyaco Eypl & Prod Inc. Vacuum Glarieta West Unit #100
Devaco Eypl & Prod Inc. Vacuum Glarieta West Unit # 100 Operator Lease & Well No. Unit S-T-R 36-17-35 and my recommendations are as follows:
- OK
Yours very truly,
James Saxton
Jerry Sexton / Supervisor, District 1

#### STATE OF NEW MEXICO



### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

February 4, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Application to amend an injection well location approved by Division Order No. R-9714. Vacuum-Glorieta West Unit

Well No. 106.

Dear Mr. Basham:

I am returning the subject application to you at this time. As you know, the rules of the Division (General Rule 104.F.(1)) do not allow for the drilling of wells within 10 feet of section lines, quarter-section lines, quarter-quarter section lines or lot lines.

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Sincerely,

Michael É. Stogner

MES/amg

cc: Oil Conservation Division - Hobbs



Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109

January 13, 1993

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 27, 50, 63, 77, 91, 105,
106, 108, 121, 122, 123, and 124
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

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Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwa

C. P. Basham
Drilling Operations Manager

CWH:

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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•	AND PROD. Inc		AVGHHW	GLORIETA	WEST	TINU	106
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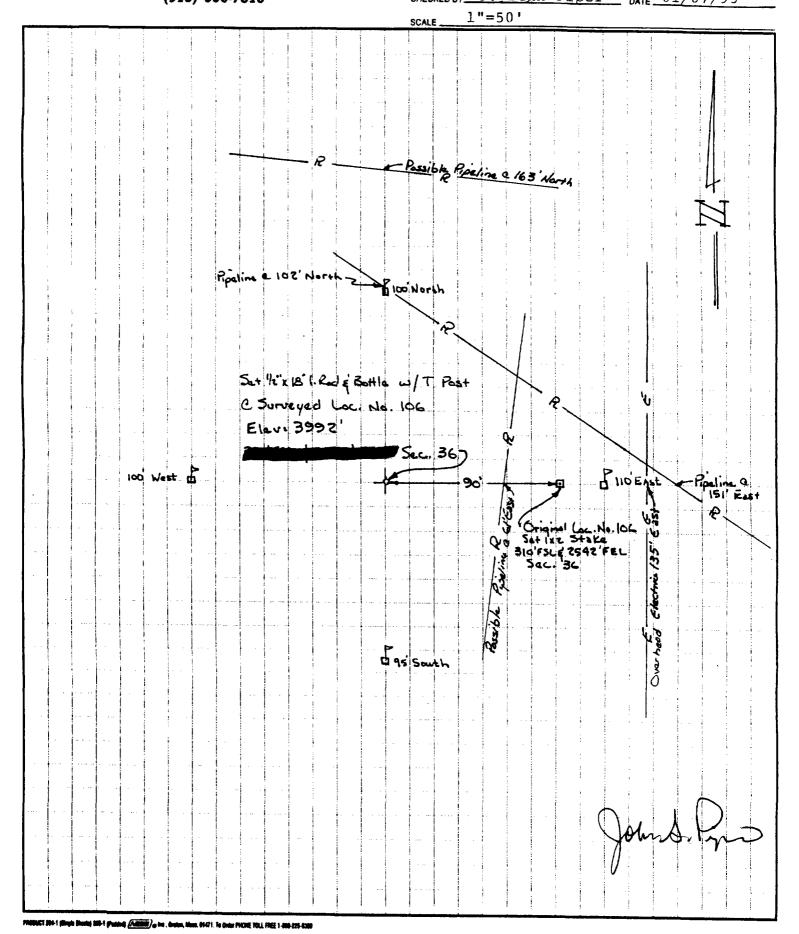
TEXACO EXPLORATION AND PRODUCTION, Inc. Vacuum Glorieta West Unit Location 106

PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

SHEET NO. 1 OF 1

CALCULATED BY DOW E Kelly DATE 01/07/93

CHECKED BY J. Stan Piper DATE 01/07/93



### STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

January 15, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment to

Division Order No. R-9714.

Dear Mr. Basham:

Reference is made to your letters dated December 2, 16, and 21, 1992 and January 6, 1993 requesting exceptions, pursuant to Division General Rule 104.F(1), to seven certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is s bing to change the proposed locations of seven partaging wells due to minor difficulties encountered when actually staking the locations.

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Texaco Exploration and Production

Attention: C. P. Basham

January 15, 1993

Page 2

Lease Name	Corrected Footage Location	<u>U-L-S-T-R</u>	VGWU Well No.
Swiggart	2520' FSL - 153' FEL	I-25-17S-34E	31
NM "N" State	1114' FSL - 41' FWL	M-30-17S-35E	42
NM "Q" State	51' FNL - 1588' FEL	B-36-17S-34E	54
NM "N" State	146' FSL - 128' FEL	P-25-17S-34E	55
NM "O" State	2521' FSL - 1503' FEL	J-36-17S-34E	81
NM "O" State NCT-1	1534' FSL - 1521' FEL	J-36-17S-34E	95
NM "O" State NCT-1	1427' FSL - 183' FEL	I-36-17S-34E	96

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay

Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

File: Case No. 10516

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach



Texaco USA
Producing Department
Midland Division

PC Box 3109 Midland TX 79/02 3109 O'L CONSER . . . N DIVISION

Ret : 780

193 JAN 7. AM 9 07

January 6, 1993

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well No. 42 Division Order No. R-9714 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

In reference to your letter dated January 4, 1993, the correct location for Well No. 42 is 1114' FSL and 41' FWL of section 30, T-17-S, R-35-E. Please reference our letter dated December 21, 1992 and the Form C-102 dated December 16, 1992 (copy attached).

Yours very truly,

C. P. Basham / cwx

C. P. Basham
Drilling Operations Manager

CWH: cwh

### STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

January 4, 1993

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

Texaco Exploration and Production, Inc. P.O. Box 3109
Midland, Texas 79702-3109

Attention: C.P. Basham

RE: Well Location Change for the Vacuum Glorieta

West Unit Well No. 42. Division Order No. R-9714

Dear Mr. Basham

I am in receipt of two different amendments for the referenced well (see copies attached).

Please confirm which is to be the correct location.

Thank you.

Sincerely,

MICHAEL E. STOGNER

Chief Hearing Examiner/Engineer

MES/jc



Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109

DIL CONSERVE ON DIVISION RECEIVED

December 21, 1992

192 DE: 24 NM 10 11

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 42, 81, 95, and 96
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 81 and 95 were moved because of pipelines. Well No. 96 was moved because of an electric line. Well No. 42, permitted December 4, 1992, had to be moved because an electric line.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C.P. Basham/cwH

C. P. Basham
Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

prists Lesse - 3 copies

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

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

# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

Sperator		·	Lease			Well No.
TEXACO I	EXPL. & PR	ROD. Inc.	VACUUM	GLORIETA WE	ST UNIT	42
jait Letter	Section	Township	Range		County	1
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round level Elev.	Producin	ng Formation	Pool	ica no	WFG	Dedicated Acreage:
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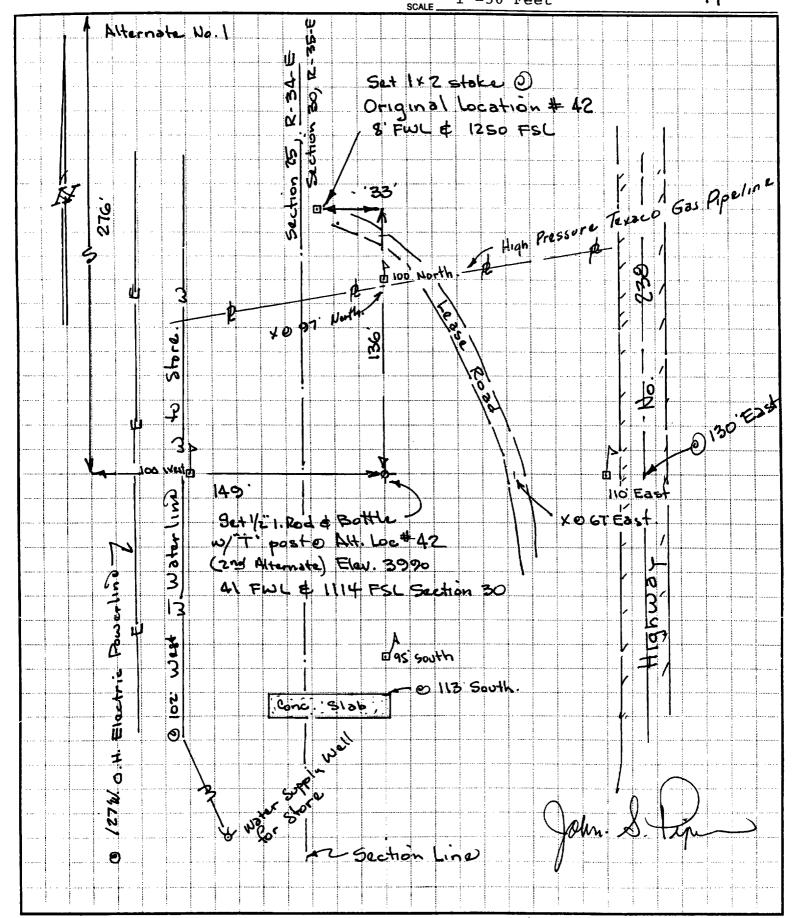
PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

SHEET NO. 1 OF 2

CALCULATED BY O. Flores DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92

1"=50 Feet 17



### STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

January 4, 1993

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

Texaco Exploration and Production, Inc. P.O. Box 3109 Midland, Texas 79702-3109

Attention: C.P. Basham

RE: Well Location Change for the Vacuum Glorieta

West Unit Well No. 42. Division Order No. R-9714

Dear Mr. Basham

I am in receipt of two different amendments for the referenced well (see copies attached).

Please confirm which is to be the correct location.

Thank you.

Sincerely,

MICHAEL E. STOGNER

Chief Hearing Examiner/Engineer

MES/jc



Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109

DIL CONSERTED N DIVISION RECEIVED

December 21, 1992

92 DE: 24 NM 10 11

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 42, 81, 95, and 96
Lea County, New Mexico

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

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Yours very truly,

C.P. Basham/cwx

C. P. Basham Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

prists - 4 copies

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

# OIL CONSERVATION DIVISION

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

DISTRICT II P.O. Drawer DD, Artesia, NM \$8210

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

		741 DECEMBER 111000		0001001001001001				
Operator CO Trans		T	Lagae	UM GLORIET	 IN WEG	m 11x17m	Well No.	42
Unit Letter   Secti	L. & PROD.			OM GLORIEI	A WES		L	
M	30	17-South	Range	5-East		County	ea	
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	Glorieta;						10	Acres
		•	•	•				
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Vacuum Glorieta West Uint Loc. 42 SHEET NO. \_ PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 J.S. Piper 12/14/92 DATE\_ 1"=50 Feet 3-9E Alternate No. 1 Set 1x2 stoke 0 Original location # 42 άl 8' FWL & 1250 FSL . High Pressure Lexaco Gas Apeline 40 €130 E24 149 110 Eas XOGT East Get VillRod & Both w/T' pasto Alt. Loc#42 (2nd Alternate) Elev. 3990 41 FWL & 1114 FSL Section 30 विप्रल 195 south e 113 South Electr 20 Conc. Slab න

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OIL CONSER. ON DIVISION

RECHAMED

Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109 '92 DE: 4 FM 9 08

December 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well Nos. 31, 42, 54, and 55 Lea County, New Mexico

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

Attention: Mr. David R. Catanach

### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well No. 31 was moved 25' West because of an electric line. Well No. 42 was moved 140' North and 198' West because of a building. Well No. 54 was moved 58' South and 105' East because of a buried pipeline. Well No. 55 was moved 32' South and 180' West because of a highway.

Attached are Forms C-102, showing the amended locations for each well.

Yours very truly,

C.P. Bashem/cwH

C. P. Basham
Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease			<del></del>	Well No.	
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Texaco USA
Producing Department
Midland Division

PO Box 3109 Midland TX 79702-3109 OIL CONSER. UN DIVISION

'92 DE 174 AM 9 24

December 16, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well Nos. 31, 42, 54, and 55 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

Attached are the "detailed plats" you requested in your letter dated December 8, 1992 concerning the captioned wells. If additional information is needed, please call C. Wade Howard at (915) 688-4606.

Yours very truly,

C.P. Basham/cwa

C. P. Basham
Drilling Operations Manager

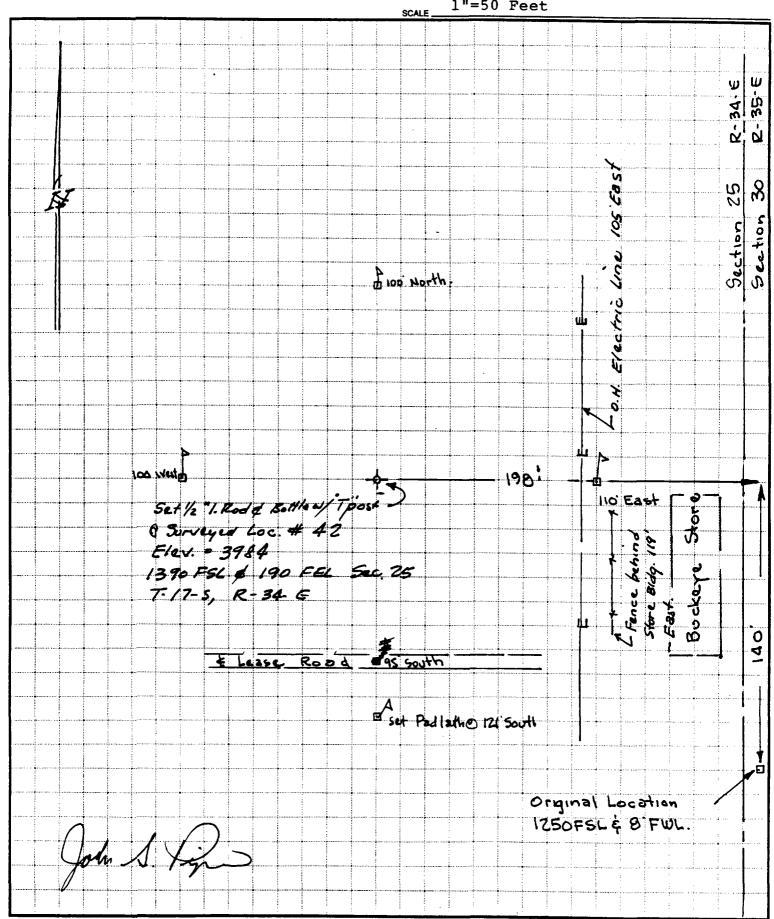
CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

# PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

•		· · · · · · ·				
JOB	Vacuum	Glorieta	West	<u>Uint</u>	Loc.	42
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Texaco USA
Producing Department
Midland Division

PO Rox 3109 Midland TX 79702-3109

SIL CONSERTA AN DIVISION RECEIVED

December 21, 1992

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GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. (42), 81, 95, and 96
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 81 and 95 were moved because of pipelines. Well No. 96 was moved because of an electric line. Well No. 42, permitted December 4, 1992, had to be moved because an electric line.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C.P. Basham/cwH

C. P. Basham
Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

# **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease					Well No.
TEXACO	EXP	L. & PR	OD. Inc.		VACU	UM GLO	RIETA	WE	ST UNIT	42
Unit Letter	Section		Township	,	Range				County	
M		30	17-	South	3	5-East	N	IMP	u L	ea
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3990		Glorie	ta; Padd	ock	Vacuu	m Glor	ieta P	00	1	37.59 Acres
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Vacuum Glorieta West Uint Loc. 42

PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

Flores CALCULATED BY.

J.S. Piper

1"=50 Feet

3-32-Z Alternate No. 1 Set 1x2 stoke 0 Original location # 42 8' FWL & 1250 FSL High Pressore Texaco Gas Apeline 100 North (30 E) 149 110 Ea X067 E&s Set /21. Rod & Both w/it post o Alt. Loc# 42 127 W. O.H. Electric Powerlind -(2nd Alternate) Elev. 3990 41 FWL & 1114 FSL Section 30 340 3 □95 South @ 113 South 20 Conc. Slab ම

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

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

Form C-102 Revised 1-1-89

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator	The same of the sa		Lease				Well No.	
TEXACO EXPL.	AND PROD. Inc.		VACUUM	GLORIETA	WEST	UNIT		81
Unit Letter Section	Township	,	Range			County		
J	36 17-Sou	th	34-1	East	NMPM	Lea		
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JOB	Vacuum	Glorieta West Unint Loc. 8	

# PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 CALCULATED BY O. Flores DATE 12/14/92

J.S. Piper DATE 12/14/92 (915) 550-7810 1"=50 Feet Pipeline @ 215 North Pipeline @ 149 North. 100 North Set 1/2" I. Rod & Bothle w/T post @ Surveyed Loc. # 81 2521 FSL & 1503 FEL Sec. 36 los wester 110 East Possible Pipeline O 74 Eas ່ທ - set 1x2 stro Original Loc # 81 7466 FSL & 1505 FEL Sec 36 □ 95 South PO 149 South

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

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

Form C-102 Revised 1-1-89

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator			Lease				Well No.	
	AND PROD. Inc.		VACUUM	GLORIETA	WEST	UNIT		95
Unit Letter Section	Township	Y	Range			County		
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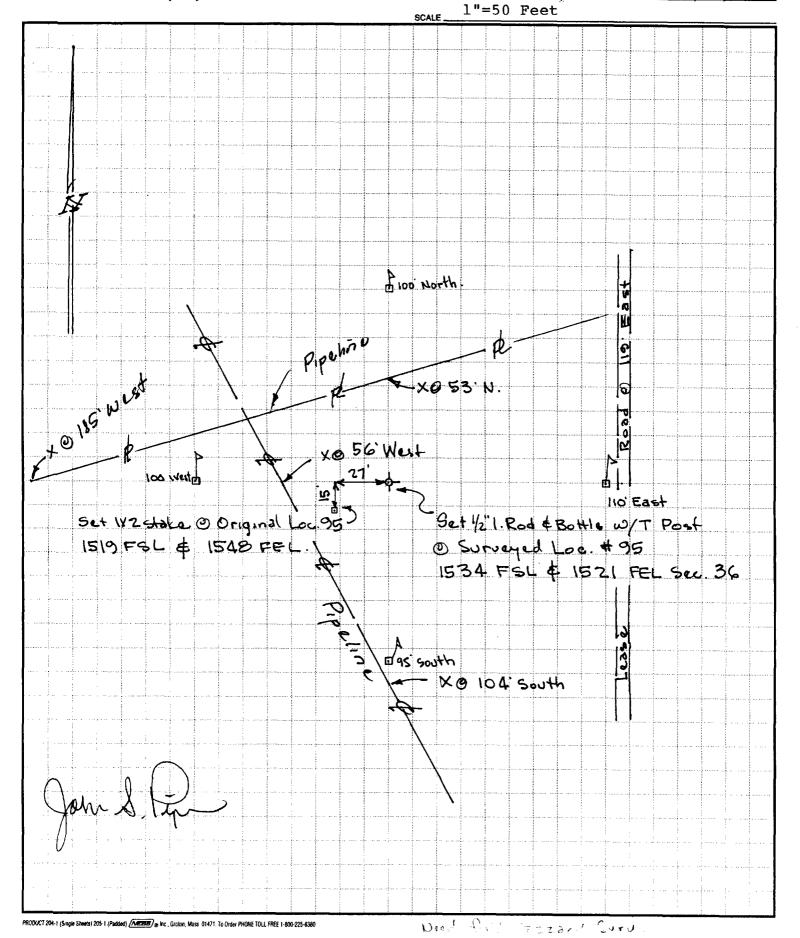
# , TEXACO EXPLORATION AND PRODUCTION INC JOB Vacuum Glorieta West Uint Loc. 今5

# PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 
 SHEET NO.
 1
 OF.
 2

 CALCULATED BY.
 O. Flores
 DATE 12/14/92

 CHECKED BY.
 J.S. Piper
 DATE 12/14/92



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

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

Form C-102 Revised 1-1-89

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator			Lease				Well No.	0.6
TEXACO EXPL.	AND PROD. Inc.		VACUUM	GLORIETA	WEST	UNIT		96
Unit Letter Section	Township	,	Range			County		
	36   17-Sou	th	34-	East 🥕	NMPM	Lea		
Actual Footage Location of We			102			E		
1427 feet from		line and	183		feet from	the East	line	
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# , TEXACO EXPLORATION AND PRODUCTION INC. 08 Vacuum Glorieta West Uint Loc. 96

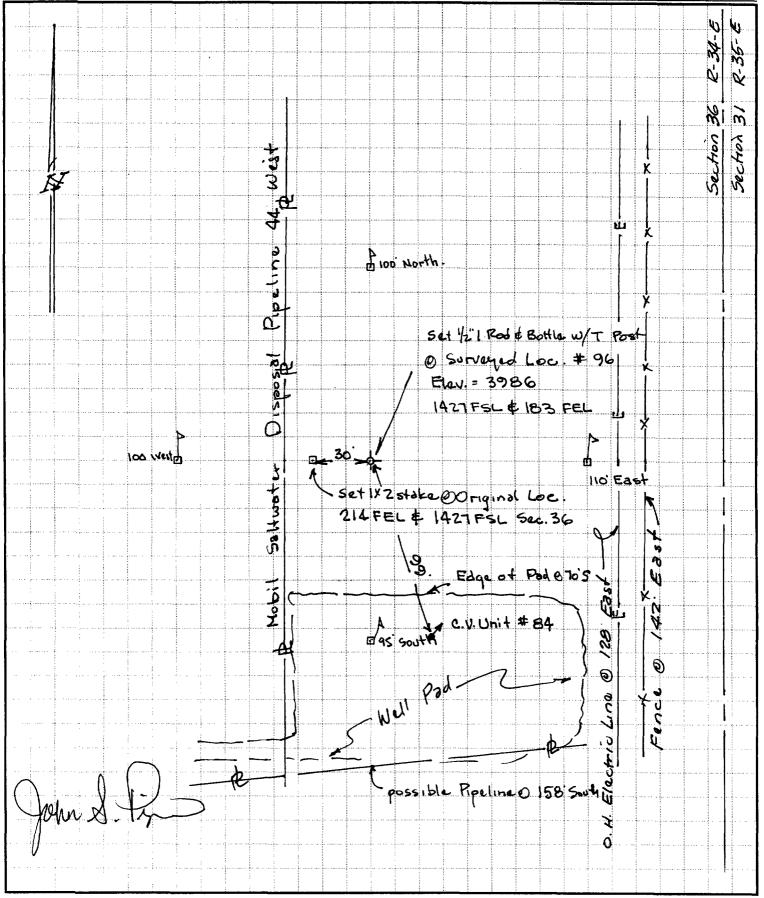
## PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 SHEET NO. 1 OF 2

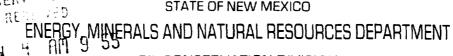
CALCULATED BY O. Flores DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92



### STATE OF NEW MEXICO



OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

12-22-92

**BRUCE KING** GOVERNOR

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

MCDHC	
NSL X ame NSP SWD	#81-9 36-17-34
WFXPMX	#95-8 36-17-34
Gentlemen:  I have examined the applic	# 95- $\int$ 36-17-34 # 96-I 36-17-34 # 42-M 30-17-35-(formuly)
, ,	Inc. Vacyum Blaneta West Unit Lease & Well No. Unit S-T-R
and my recommendations are	as follows:
Need letter approv	ing wells to be mared

Supervisor, District 1

Midland Division

SIL CONSERV FUN DIVISION RESEARCH

Texaco USA
Producing Department Micland TX 79702-3109 '92 DE : 4 PM 9 08

December 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 31, 42, 54, and 55
Lea County, New Mexico

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

Attention: Mr. David R. Catanach

### Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well No. 31 was moved 25' West because of an electric line. Well No. 42 was moved 140' North and 198' West because of a building. Well No. 54 was moved 58' South and 105' East because of a buried pipeline. Well No. 55 was moved 32' South and 180' West because of a highway.

Attached are Forms C-102, showing the amended locations for each well.

Yours very truly,

C.P. Basham/cwH

C. P. Basham
Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator						Lease							Well No.	
TEXACO		AND	PROD.	Inc	•		CUUM	I GLOI	RIETA	WES'	r uni	T	31	
Unit Letter	Section		Township		1	Range					County			
I	2			17-So	uth		34-	East		NMPM	<u></u>	Lea	3	
Actual Footage Loc														
252	() feet from	the	FS		line and			1.5	3 fe	et from	the	I	EL line	
Ground level Elev.	1		Formation			Pool							Dedicated	Acreage:
3982	-	Glorie							lorie	ta P	001		40	Acres
1. Outlin	ne the acreag	e dedicated	to the subje	oct well by	colored pen	cil or had	hure ma	rks on the	plat below.					
2. If mo	re than one i	ease is dedi	cated to the	well, out	line each and	identify	the own	ership then	eof (both as	to work	ing intere	st and r	oyalty).	
3. If mo	re than one l	ease of diffe	erent owner	ship is dec	dicated to the	well, ha	ve the in	terest of al	l owners bec	n consc	olidated b	y comn	unitization	
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Submit-to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

Form C-102 Revised 1-1-89

Well No.

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Operator

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

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

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Lease

Total Footage Location of Well:  1390 feet from the FSL line and 190 feet from the FET, line cound level Elev. Producing Formation Pool 3984 Glorieta; Paddock Vacuum Glorieta Pool 40 Acres  1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?		EXPL.	AND PROD. In	ic.	VACUUM	GLORIETA	WEST	T UNIT	42	
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South level liev.   Producing Formation   Pool   Acres   Additional to the subject well by colored peacil or hackure marks on the plat below.	ctual Footage Local	tion of Well				100		-		
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1. Outline the acreage dedicated to the subject well by colored people or backure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).  3. If more than one lease of different convenible is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?    Yes	round level Elev.		Producing Formation	Po						age:
1. Outline the acreage dedicated to the subject well by colored pencil or hackum marks on the plat below.  2. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.7    Yes   No ill owners and truct descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  No illowable will be assigned to the well until all interest have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.  OPERATOR CERTIFICATION  I hareby certify that the information of the plat of th	3984	G	lorieta; Pad	dock	Vac	uum Glori	eta P	ool	40	Acres
No allowable will be satigned to the well until all interest, have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.  I have by certify that the information of my browledge and belief:  Signature  12 13 0 14 0 0 17 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2. If more  3. If more unitizate  k If answer	than one le than one le tion, force-po Yes is "no" list t	ase is dedicated to the well, ase of different ownership is coling, etc.?  No If an the owners and tract descript	outline each and ide dedicated to the way	entify the owners, have the interest of consolidation	rship thereof (both erest of all owners	as to worki been conso ation	lidated by com		
I hereby certify that the information of the first in true and complete to best of my knowledge and belief.  Signature  Printed Name  Royce D. Mariott  Position  Division Surveyor  Company  Texaco Expl. & Prod.  Date  December 1, 1992  SURVEYOR CERTIFICATION  Askerby certify that the well location is on this plat was plotted from field and cactual surveys made by me or under supervision, and that the same is true  and a surveys made by me or under supervision, and that the same is true  of the field of the best of my knowledge belief.  Date Surveyed  November 24, 1992  Signature & Seal of Professional Surveyor  Certificate No.  7254 J.S. Piper	No allows	able will be	assigned to the well until all				, unitizatio	n, forced-pooling	ng, or otherwise)	
I hereby certify that the information of the first in true and complete to best of my knowledge and belief.  Signature  Printed Name  Royce D. Mariott  Position  Division Surveyor  Company  Texaco Expl. & Prod.  Date  December 1, 1992  SURVEYOR CERTIFICATION  Askerby certify that the well location is on this plat was plotted from field and cactual surveys made by me or under supervision, and that the same is true  and a surveys made by me or under supervision, and that the same is true  of the field of the best of my knowledge belief.  Date Surveyed  November 24, 1992  Signature & Seal of Professional Surveyor  Certificate No.  7254 J.S. Piper				0	-	-				
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

Form C-102 Revised 1-1-89

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease				Well No.
TEXACO I	EXPL.	AND PR	OD. Inc.		VACUUM	GLORIETA	WEST	UNIT	54
Unit Letter	Section	1	Township	١.	Range			County	
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

Form C-102 Revised 1-1-89

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator						Lease						Well No.	
TEXACO	EXPL.	AND	PROD.	Inc		VA	CUUM	GLORI	ETA W	ESI	UNIT	55	
Unit Letter	Section		Township		,	Range					County		
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BRUCE KING

### STATE OF NEW MEXICO

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT AND DIVISION

### OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'92 DE: H AM 9 01

12-3-92

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980

GOVERNOR (505) 393-6161 OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed: MC DHC NSL NSP SWD WFX **PMX** Gentlemen: I have examined the application for the: #31-1 25-17-34 and my recommendations are as follows: # 54 - B 36-17-34 # 55 - P 25-17-34 approved location that willshad to be moved to

Yours very truly,

úpervisor, District l

### STATE OF NEW MEXICO



### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

December 8, 1992

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

Texaco Exploration and Production, Inc. P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham

RE: Amendments for injection well locations for the Vacuum Glorieta

West Unit as approved by Division Order No. R-9714.

Dear Mr. Basham:

We have received your applications dated December 2, 1992 for injection well location changes and it appears there may be more in the future. In reviewing your application, we are unclear as to how obstacles such as buildings, roads, electrical lines, pipelines, etc. were overlooked in the planning and preparation of Case No. 10516 which resulted in the above-referenced order.

In order to consider your request for amended locations, please submit a *detailed* plat of the subject area showing the approved location, proposed location and any and all obstructions to be avoided.

A similar plat will be required an all requests of this nature in the future.

Sincerely,

Michael E. Stogner

Chief Hearing Officer/Engineer

MES/amg

cc: William J. LeMay, OCD Director

PO Box 3109

OIL CONSER .. UN DIVISION - REGINED

'92 DE 17 H HM 9 24

December 16, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well Nos. 31, 42, 54, and 55 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

Attached are the "detailed plats" you requested in your letter dated December 8, 1992 concerning the captioned wells. If additional information is needed, please call C. Wade Howard at (915) 688-4606.

Yours very truly,

C.P. Basham/cwa

C. P. Basham Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

December 8, 1992

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

Texaco Exploration and Production, Inc. P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham

RE: Amendments for injection well locations for the Vacuum Glorieta West Unit as approved by Division Order No. R-9714.

Dear Mr. Basham:

We have received your applications dated December 2, 1992 for injection well location changes and it appears there may be more in the future. In reviewing your application, we are unclear as to how obstacles such as buildings, roads, electrical lines, pipelines, etc. were overlooked in the planning and preparation of Case No. 10516 which resulted in the above-referenced order.

In order to consider your request for amended locations, please submit a *detailed* plat of the subject area showing the approved location, proposed location and any and all obstructions to be avoided.

A similar plat will be required an all requests of this nature in the future.

Sincerely,

Michael E. Stogner

Chief Hearing Officer/Engineer

MES/amg

cc: William J. LeMay, OCD Director

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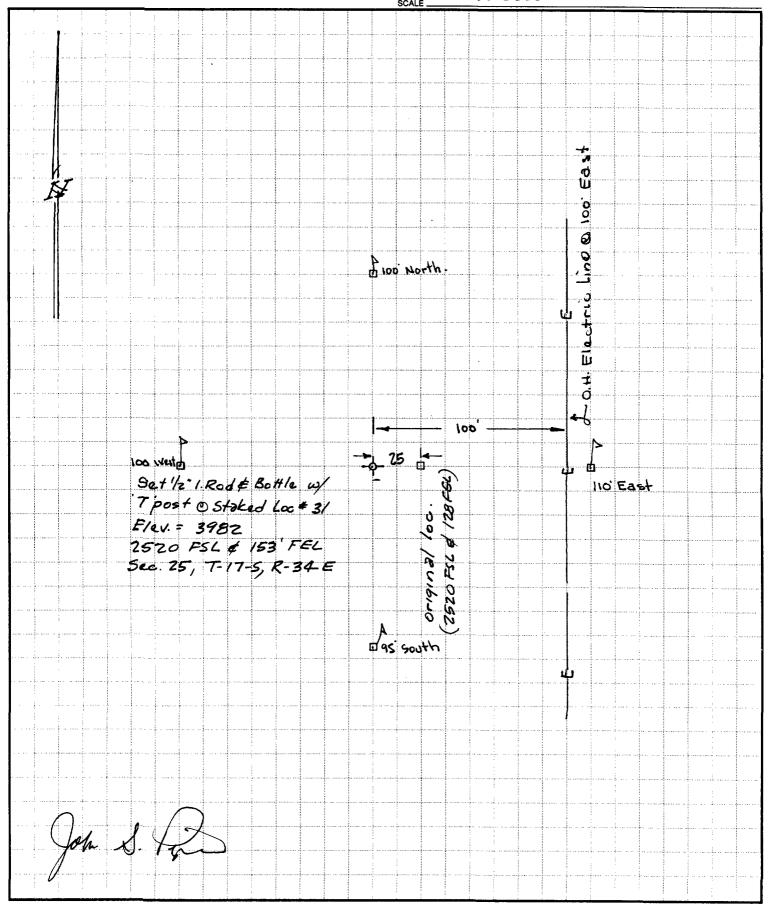
## P.O. Box 60432

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 SHEET NO. 1 OF 2

SURVEY O. Flores DATE 12/14/92

PRADA OHEOMED BY J.S. Piper DATE 12/14/92

1"=50 Feet

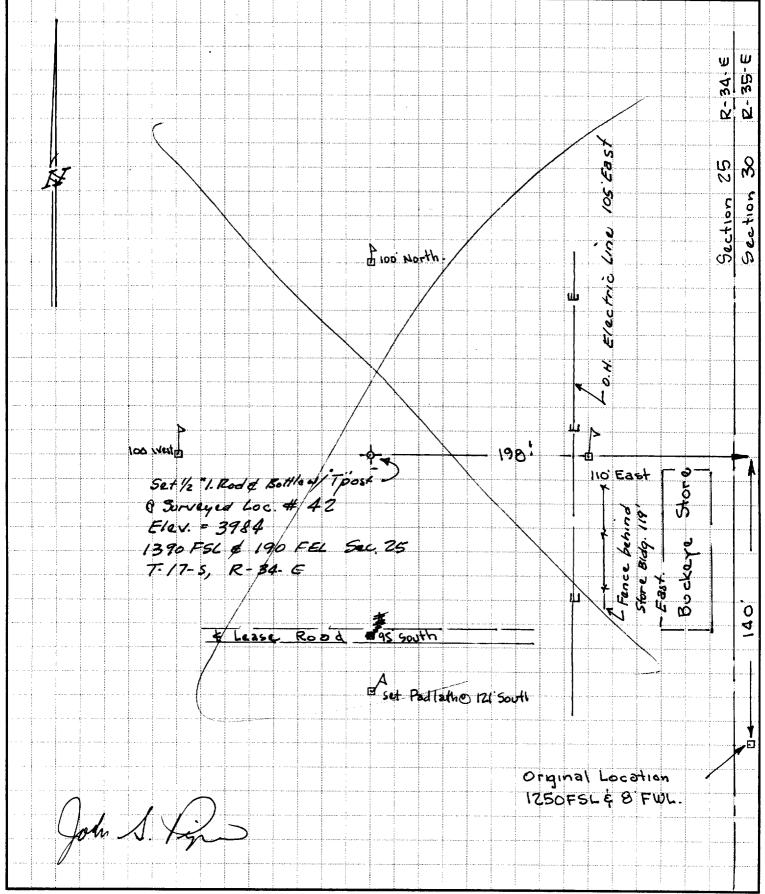


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ALCULATED BY_	O. Flores	DATE12/14/92	

PIPER SURVEYING COMPANY P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

CHECKED BY J.S. Piper DATE 12/14/92 1"=50 Feet



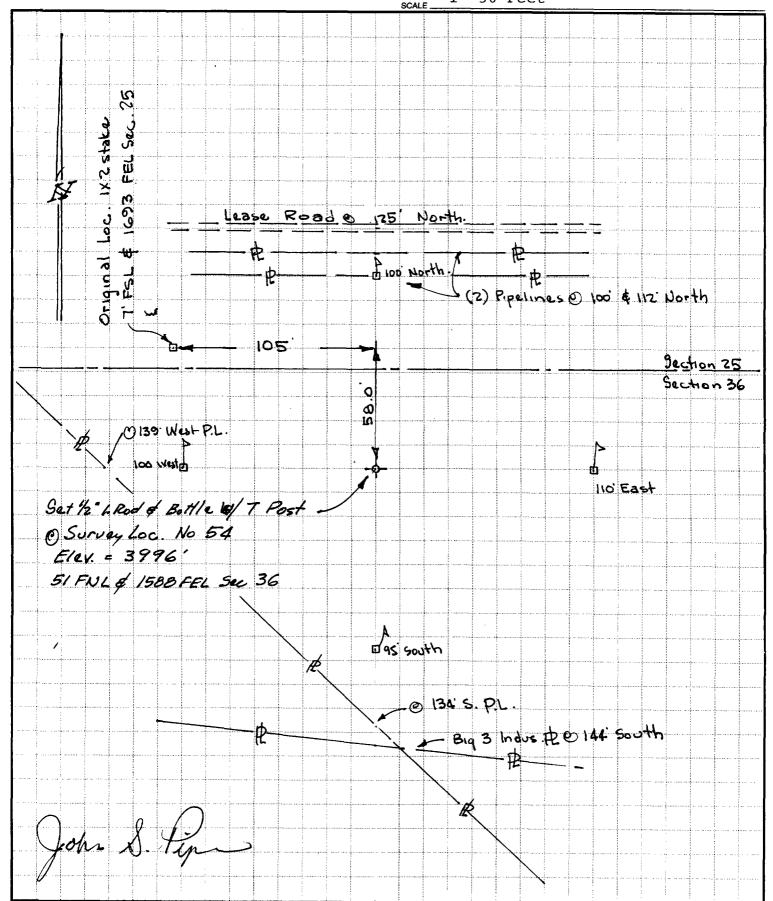
### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 JOB Vacuum Glorieta West Uint Loc. 54
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CALCULATED BY O. Flores DATE 12/14/92

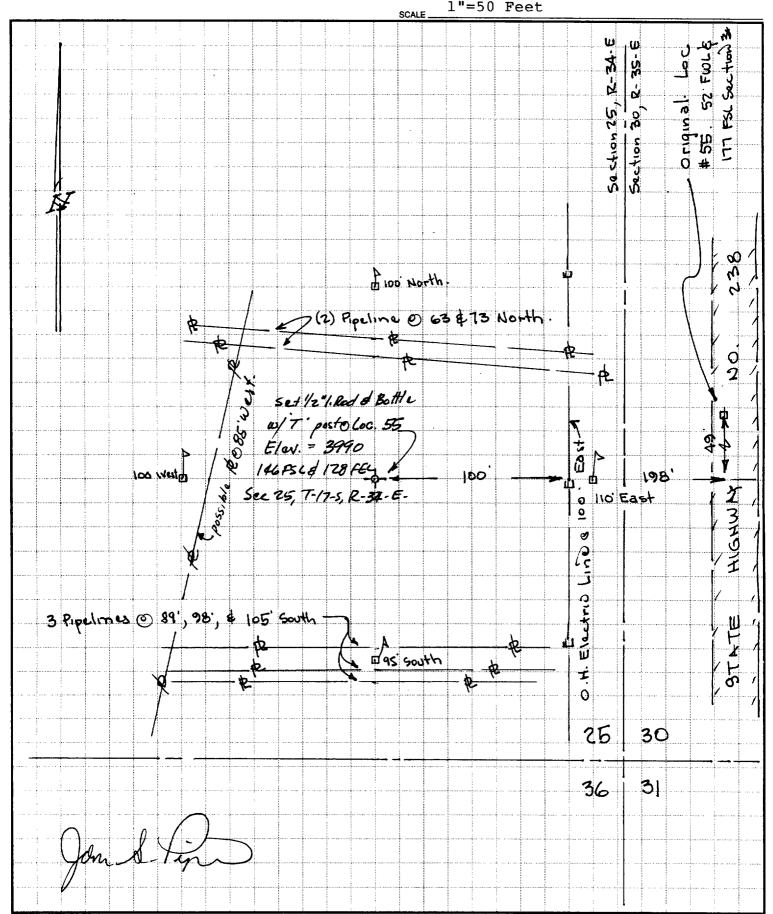
CHECKED BY J.S. Piper DATE 12/14/92

1"=50 Feet



PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

JOB Vacuum Glorieta	West	Uint	Loc.	55
SHEET NO. 1	OF_	2		
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#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR



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

September 3, 1992

CAMBELL, CARR, BERGE & SHERIDAN
Attorneys at Law
P. O. Box 2208
Santa Fe, New Mexico 87504

RE: CASE NO. 10533, CASE NO. 10516

ORDER NO. R-9713, ORDER NO. R-9714

Dear Sir:

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

Sincerely,

Florene Davidson

**OC Staff Specialist** 

FD/sl

cc: BLM Carlbad Office

David Abbey - DFA

T. Kellahin

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

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

September 15, 1992

Texaco Exploration & Production, Inc. c/o William F. Carr Campbell, Carr, Berge & Sheridan, P.A. P.O. Box 2208
Santa Fe, NM 87504

RE: Vacuum Glorieta West Unit Waterflood Project,

Lea County, New Mexico.

Dear Mr. Carr:

I am returning your application dated September 8, 1992 for approval of Texaco's Vacuum Glorieta West Unit Waterflood Project for the recovered oil tax rate authorized by the Enhanced Oil Recovery Act. It appears that Division Order No. R-9714, issued in Case No. 10516, qualifies the subject project under the Enhanced Oil Recovery Act (see decretory paragraphs 13 and 14 on page 5 of said Order No. R-9714).

This application is therefore unnecessary; however, if you think this is not the case and another hearing is required, please contact me so that a meeting with our general counsel, chief engineer and director can be arranged.

Sincerely,

Michael E. Stogner

Chief Hearing Officer/Engineer

MES/amg

cc: Robert G. Stovall, OCD - Santa Fe

Case File: 10516

Case File 10516

#### STATE OF NEW MEXICO



### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

October 21, 1992

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment to

Division Order No. R-9714.

Dear Mr. Basham:

Reference is made to your letters dated September 2, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to eight certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations of eight particular wells due to minor difficulties encountered when actually staking the locations.

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Texaco Exploration and Production

Attention: C. P. Basham

October 21, 1992

Page 2

Lease Name	Corrected Footage Location	U-L-S-T-R	VGWU Well No.
McAllister State	1217' FSL - 24' FWL	M-25-17S-34E	38
McAllister State	1590' FSL - 2404' FWL	K-25-17S-34E	40
State H-35	24' FNL - 101' FEL	A-35-17S-34E	51
McAllister State	214' FSL - 1630' FWL	N-25-17S-34E	52
McAllister State	215' FSL - 2350' FWL	N-25-17S-34E	53
NM "O" State NCT-1	1522' FNL - 1492' FWL	F-36-17S-34E	65
State VB	2561' FSL - 1351' FWL	K-36-17S-34E	79
NM "O" State NCT-1	2517' FNL - 2442' FEL	G-36-17S-34E	80

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay

Director

cc:

WJL/MES/amg

Oil Conservation Division - Hobbs

File: Case No. 10516

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach

October 20, 1992

M.S

Texaco Exploration and Production Company P.O. Box 3109 Midland, TX 79702-3109

DRAFT

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division Order No. R-9714.

Dear Mr. Basham:

injection

Reference is made to your letters dated September 2, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to eight certain well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the location of eight particular wells due to minor difficulties encountered when actually staking the locations.

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Lease Name	Corrected Footage Location	U-L-S-T-R	VGWU Well No.
McAllister State	1217' FSL - 24' FWL	M-25-17S-34E	38
McAllister State	1590' FSL - 2404' FWL	K-25-17S-34E	40

Texaco Exploration and Production Attention: C. P. Basham October 20, 1992 Page 2

Lease Name	Corrected Footage Location	U-L-S-T-R	VGWU Well No.
State H-35	24' FNL - 101' FEL	A-35-17S-34E	51
McAllister State	214' FSL - 1630' FWL	N-25-17S-34E	52
McAllister State	215' FSL - 2350' FWL	N-25-17S-34E	53
NM "O" State NCT-1	1522' FNL - 1492' FWL	F-36-17S-34E	65
State VB	2561' FSL - 1351' FWL	K-36-17S-34E	79
NM "O" State NCT-1	2517' FNL - 2442' FEL	G-36-17S-34E	80

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs

File: Case No. 10516

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach



Texaco USA
Producing Department
Midland Division

PC Box 3109 Midland TX 19702-5109



September 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Vacuum Glorieta West Unit
Well Nos. 38, 39, 40, 52, 53,
64, 65, 66, 78, 79, & 80.
Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

An exception, by administrative approval, to Rule 104 F.I. is requested for Texaco Exploration and Production Inc.'s Vacuum Glorieta West Unit Well Nos. 38, 39, 40, 52, 53, 64, 65, 66, 78, 79, and 80. These wells will be water injection wells in the newly-formed Unit.

The wells must be drilled in these locations for the purpose of completing an efficient injection/production pattern within our Vacuum Glorieta West Waterflood Project. These wells will be completed in the Vacuum Glorieta Pool.

It should be noted that there are no "affected" offset operators to these wells.

Attached are Forms C-102, showing the location for each well, a lease plat showing the existing wells, and a lease plat showing the offset operators.

Yours very truly,

C.P. Basham/cwh

C. P. Basham
Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 D-9714 -51 FEL 25 (M) 25

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator		***************************************				Lease		***************************************		Well No.	
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#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

### <u>DISTRICT |</u> P.O. Box 1980, Hobbs, NM **8824**0

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

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

Santa Fe, New Mexico 87504-2088

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Form C-102 Revised 1-1-89

### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

R-9714 156 15WC 250 (K) 25

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

**OIL CONSERVATION DIVISION** 

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

65'FSL-1587'FWL

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

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

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

Operator							Licasc				WEII 140.	_
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Ground le	vel Elev.		Producing	Formation		And the state of t	Pool				Dedicated Acr	eage:
400	5		Glori	eta; F	add	ock	Vac	cuum Glorieta	P	ool	40	Acres
	1. Outline	the acrea					cil or hachure m	arks on the plat below.				
	2. If more	than one	lease is dedi	icated to the	well, ou	tline each and	identify the own	tership thereof (both as to w	orki	ng interest and	rovalty).	
	3. If more	than one	lease of diff	erent owners				nterest of all owners been or				
	-	yes	pooling, etc	No.	If anone	ne ie llynell twe	e of consolidation	unitizati	on			
			the owner					posolidated. (Use reverse sid		THE RESIDENCE AND ADDRESS OF THE PARTY OF TH		
	this form	if neccess	ary.									
							en consolidated proved by the Di	(by communitization, unitiz	atio	n, forced-poolin	g, or otherwise)	
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3			1				1		1	Printed Name		
	tronuel delicer the			Manager Manager Madager						Royce I	). Mario	tt
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3			1					25		DIVISIO Company	on Surve	YOT
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			1			35						m field notes of se or under my
			1									ime is true and
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6-			1.S	14'FSL		)				11	S. Pipe	er
No.						-			1	, WE T	. D. IIpo	
0 3	30 660	990 1	320 1650	1980 231	0 264	10 20	00 1500	1000 500	)			

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

Form C-102 Revised 1-1-89

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

65 1856-2350 FWL

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease				W	ell No.	
TEXACO	EXPL	. AND	PROD.	Inc.	VACU	UM GLORIETA	WES	SI	UNIT	53	3
Unit Letter	Section		Township	1	Range				County		
N	2	2.5	17	-South	3	4-East	NMI	PM	Lea		
Actual Footage Loca	ation of W	ell:									
215	feet from		uth	line and	2350		feet fro	om	the West	line	
Ground level Elev.		Producing !			Pool					edicated Acre	age:
4003			ta; Pa			acuum Glorie		P	001	40	Acres
2. If mon	e than one	lease is dedica	ated to the we	ll, outline each and	l identify the	e marks on the plat below	is to wo		-		
If answer this form	Yes r is "no" lis if neccess vable will b	st the owners ary.	No If and tract describe well until	answer is "yes" ty iptions which have all interests have b	pe of consolid	consolidated. (Use reve ted (by communitization,	ati.c	on e of	ſ		
er until a	non-stand	ard unit, elimi	nating such in	iterest, has been ap	proved by the	Division.					
		·				<u></u>	LARRA		OPERATOR	R CERTIF	CATION
	2		13							ertify that t	he information complete to the
				14		1.		1	Signature Printed Name	Ma	is 8
•						25			Royce D. Position Division Company Texaco F: Date	Surve	yor
•	ટર	] 	23		24	1			Surveyo		
11.0		+		25			-	>	SURVETO	K CLKIII	ICATION
	33	34		*35 40		36			I hereby certify to on this plat was actual surveys n supervison, and correct to the libelief.	plotted from made by me that the sai	n field notes of or under my me is true and
•			o					-	Date Surveyed		
Marat Mccall	39 thon's lister #	7-0		33 a 47		• 48			August 2 Signature & Seal Professional Surve	of	2
	2350			CIPI					7254 J.S	. Pipe	r
			- Australia					-	, 231 0 . 0		
0 330 660	990 1	320 1650	1980 2310	2640 2	000 150	0 1000 500	0	1			

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

Form C-102 Revised 1-1-89

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

(Camina	All Dista	Tons must be from the outer	COUNCIENTS OF THE SECTION	
Operator		Lease	A GLODIUM LID	Well No. 64
TEXACO EXPL.			M GLORIETA WE	DI ONII
Unit Letter Section		Range		County
E	36 17-Sou	th 34-	-East NA	MPM Lea
Actual Footage Location of	Well:			
1484 feet fro		line and 204	feet	from the West line
Ground level Elev.	Producing Formation	Pool		Dedicated Acreage:
4008	Glorieta; Padd	ock Vacui	um Glorieta	Pool 40 Acres
	eage dedicated to the subject well	by colored pencil or hachure r	narks on the plat below.	
2. If more than or unitization, for Yes	ne lease is dedicated to the well, one lease of different ownership is co-pooling, etc.?  No If ans list the owners and tract description	utline each and identify the own dedicated to the well, have the wer is "yes" type of consolidate	raceship thereof (both as to we interest of all owners been of all owners been of all on the control of the con	consolidated by communitization,
No allowable will				zation, forced-pooling, or otherwise)
or unui a non-stat	rear mut, thinnating socii intere	st, has occu approved by the L	TIVIAIUI.	
1484 FNL				OPERATOR CERTIFICATION  I hereby certify that the informatic contained herein in true and complete to the best of my knowledge and belief.
501. NMI <sup>1</sup> C'N' 1123	• 59	. 60	i 	Printed Name Royce D. Mariott
0 64 204 FWL 6, 842. 20 72 • NM"0"ST	66 o	-74	         •75	Position  Division Surveyor  Company  Texaco Expl. & Prod.  Date  September 2, 1992
0 78 40 Ac.		80		SURVEYOR CERTIFICATION
85	3 86	.87		I hereby certify that the well location sho on this plat was plotted from field notes actual surveys made by me or under supervison, and that the same is true of
		88.	89.	belief.  Date Surveyed  August 27, 1992
99 •	100		• 105	Signature & Seal of Professional Surveyor
		•101		Certificate No.
			Paris State Company	か 7/254 John S. Piper
0 330 660 990	1320 1650 1980 2310 20	540 2000 1500	1000 500	0

0

330 660

990

1320

1650 1980 2310 2640

2000

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

Form C-102 Revised 1-1-89

### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

1472 ENL 1492 FOUL

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease				Well No.
TEXACO I	EXPL	AND PR	OD. Inc.			GLORIETA	WEST	TUNIT	65
Unit Letter	Section		Township	,	Range			County	
F		36	17-Sou	th		East	NTI (DA	T.ea	
Actual Footage Lo	ocation of W						NMP	VA. I	
1522	feet from	n the N	lorth	line and	1492		feet from	n the West	line
Ground level Elev		Producing !	Formation		Pool				Dedicated Acreage:
4004		Glorie	ta; Padd	ock	Vacuu	m @Glorie	ta Po	ool	40 Acres
1. Outl	ine the acre	ige dedicated t	o the subject well	by colored pen	cil or hachure m	arks on the plat below	v.		
2. If m	ore than one	dease is dedicate	ated to the well, or	siline each and	identify the own	enship thereof (both	s to worl	king interest and	royalty).
				ledicated to the	well, have the in	iterest of all owners	been cons	colidated by com	nunitization,
	Yes	pooling, etc.?		ver is "ves" tw	e of consolidation	. Unitiza	tion		
						nsolidated. (Use rev	erse side	of	
this for	rm if necces	sary.		3 7					
No allo or unti	owable will la non-stan	be assigned to lard unit, elimi	the well until all in inating such interes	nterests have b st, has been ap	een consolidated proved by the Di	(by communitization vision.	, unitizati	on, forced-poolin	g, or otherwise)
0			9	)				OPERAT	OR CERTIFICATION
		1	1						certify that the informati
1									in in true and complete to t
		1.1			1				ledge and belief.
-	F0 .	N			1	.61			
	20 8	22			i			Signature	am Ca
		-	• 59	. 60				( Xayo X	1 (bande)
	VU#55	L 16	• 59			× .		Printed Name	
1 28	NMIL)							Royce	D. Mariott
0 64		0 65						Position	
	492'	-	660					Divisi	on Surveyor
	0	. SEV						Company	
	72 0		NM'O"ST #11		J			Texaco	Expl. & Prod.
1		3	3					Date	
		1	13		• 74	•75		Septem	ber 2, 1992
0 78	**	1 40 Ac	4.	80					OR CERTIFICATION
•		0	3	6			-	SURVE	TOR CERTIFICATION
	*.	79			9			I hereby certi	fy that the well location sho
		i	0.0					on this plat t	vas plotted from field notes
		1	86		87		1	actual survey.	s made by me or under
8	5	1 5 "	***			00			nd that the same is true
.1		1	**			89			e best of my knowledge
			160	. 88	3			belief.	
		1 2						Date Surveyed	
	-							_	27, 1992
				8				Signature & S	eal of
	99 •		100			. 105		Professional S	urveyor
	*	1	100						
	*1	1			101			1 3 3	
		i			J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			l late	X
		i				i		John	· With
								Certificate No	
				<u> </u>				7254	John S. Piper
STATE OF THE PERSON NAMED IN	THE REAL PROPERTY.		No. of Street, or other Parks		AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUM				

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease				Well No.
	XPL.	AND P	ROD. Inc.			GLORIETA	WEST		66
Unit Letter	Section		Township	,	Range			County	
F		36	17-Sou	th	34-	East	NMPN	Lea	
Actual Footage Loc			Moz+h		2577			West	h ou.
1690 Ground level Elev.	feet from	nd mra	North Formation	line and	Pool		feet from	n the	line Dedicated Acreage:
3993			eta; Padd	ock		m @Glorie	ta Po	001	40
THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	ne the acre	THE RESERVE AND ADDRESS OF THE PERSONNEL PROPERTY.				arks on the plat below		701	Acres Acres
			to allo tobject wear	o) colores per		and pin ono			
2. If mo	re than one	e lease is ded	icated to the well, ou	tline each and	identify the own	nership thereof (both	as to work	ting interest and	royalty).
3. If mo	re than on	e lease of diff	erent covnership is d	edicated to the	well have the i	nterest of all owners	heen cons	olidated by come	munitization
		e-pooling, etc		outomos to are	word imvo are i			onument by confi	in in the state of
	Yes				e of consolidation				·
	er is "no" l n if necces		and tract description	ns which have	actually been co	onsolidated. (Use rev	erse side (	of	
			o the well until all in	terests have b	een consolidated	(by communitization	, unitizatio	on, forced-poolin	g, or otherwise)
			minating such interes						-
<b>@</b>		1	19					OPERAT	OR CERTIFICATION
			1		-		- 11		certify that the information
		!	11			*		contained here	in in true and complete to the
						-61		best of my know	ledge and belief.
1	58		0			• 6		Signature	
			5	60	P.	100		2	DUM,
		1	99 6 4115	8				Printed Name	N. 1/aust/
		1	384' N	90					D. Marriott
0 64								Position	D. Mariott
0 04	0===!	0 6	-660			· ·		Divisi	on Surveyor
	2577'	1	2			1		Company	Oll Bulveyor
	72 •	NW.O.	ST.* 19		2			Texaco	Expl. & Prod.
		1	Spec	1010		1		Date	Inpr. a rroat
			\$F.		• 74	3F.		Septem	ber 2, 1992
850	¥	40,	4c.	80		l			OR CERTIFICATION
•		0	30	0			-	SURVE	TOR CERTIFICATION
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		İ	86		1	İ			vas plotted from field notes
85	3	İ	00	•	87	i			t made by me or under me and that the same is true an
0.		1 1				89		The state of the s	e best of my knowledge an
		i		. 88		1		belief.	
		i				i		Date Surveyed	
	-		-			<u> </u>			27, 1992
		i				İ		Signature & S	
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		i	100			i		0	
		i			-101	i		( )	- A 1 1 -
		i				i		MA	X V
		i				i		Youn	100
		i				i		Certificate No	
							<b>_</b>	72/54	John S. Piper
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	274		1700 2010 20		1000	300	U	1	

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

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	Lease	A GEODETHIA LID	CM INITM	Well No.
		M GLORIETA WE		78
		-East	T.o.a	
			IPM I	
rom the North	line and 127	feet 1	from the West	IME
				Dedicated Acreage:
			Pool	40 Acres
one lease is dedicated to the well, one lease of different ownership is	outline each and identify the ow	mership thereof (both as to winterest of all owners been c	onsolidated by com	
No If any list the owners and tract description sessary.  Ill be assigned to the well until all	ons which have actually been controlled to interests have been consolidated	consolidated. (Use reverse si	de of	g, or otherwise)
andard unit, eliminating such intere	est, has been approved by the D	Division.		
		.61	I hereby contained here	OR CERTIFICATION certify that the information in true and complete to bledge and belief.
• 59	. 60		Signature Printed Name ROVCE	D. Mariott
o 65 66c	,		Position Divisi Company	
۶۳.	.74	   •75 	Date Septem	hber 2, 1992 YOR CERTIFICATION
86	. 87	89.	on this plat actual survey, supervison, ac correct to th	fy that the well location sh was plotted from field note. s made by me or under nd that the same is true e best of my knowledge
	. 88	102	Date Surveyed August Signature & S	27, 1992
100	•101		Joh	1 APS
	Township  36 17-Sou  [Well: from the North Producing Formation Glorieta; Pado creage dedicated to the subject well one lease is dedicated to the well, of one lease of different ownership is once-pooling, etc.?  "list the owners and tract description cessary.	Township  36  17—South  34-  [Well:    rom the   North   line and   127   Producing Formation   Pool     Glorieta; Paddock   Vacus     creage dedicated to the subject well by colored pencil or hachure a cone lease is dedicated to the well, outline each and identify the owner lease of different ownership is dedicated to the well, have the prospection, etc.?    No   If answer is "yes" type of consolidate and ard unit, eliminating such interest, has been approved by the Endowment of the well unit all interests have been consolidate and unit, eliminating such interest, has been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests have been approved by the Endowment of the well unit all interests h	Township 36 17—South 34—East No. 17—South 100 127 feet 17—South 10	Township 36 17—South 34—East NMPM Lea 17—South 10—South 127 feet from the 127 feet from the 127 feet from the 127 feet from the 127 feet from the 127 feet from the 128—Froducing Formation Producing Formatio

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

Form C-102 Revised 1-1-89

### **OIL CONSERVATION DIVISION**

Santa Fe, New Mexico 87504-2088

P.O. Box 2088 2461 1054 1351 FWL

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

330 660

990 1320 1650 1980 2310 2640

0

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

	All Distar	nces must be from	n the outer b	oundanes of the se	ction		
Operator		Les	ase		-		Well No.
	AND PROD. Inc.	7	VACUUM	GLORIETA	WEST	UNIT	79
Unit Letter Section	Township		nge	a v		County	
K	36 17-Sou	th	34-1	East	NMPN	Lea	
Actual Footage Location of W	ell:						
	the South		1351		feet from	the West	line
Ground level Elev.	Producing Formation	Poo			-	- 1	Dedicated Acreage:
	Glorieta; Padd			Gloriet		001	40 Acres
2. If more than one unitization, force Yes If answer is "no" lis this form if neccess	No If anset the owners and tract description	utline each and ider dedicated to the wel wer is "yes" type of ons which have actu	ntify the owner il, have the in- f consolidation ually been con	erest of all owners b Unitizat solidated. (Use reve	een const	olidated by comm	nunitization,
or until a non-stand	ard unit, eliminating such intere	st, has been approve	ed by the Div	sion.			
0 64.  72 •  0 64.  78 C.V.U# 70  78 106 NWIY.	• 59 • 660	80	74	•75	1 1	Signature  Printed Name  Royce Position  Divisi Company  Texaco  Date  Septem	Expl. & Prod.
1351 85	79 992 86 C.V.U #79 40 Ac.	. 88	101	89.		I hereby certifon this plat wactual surveys supervison, an correct to the belief.  Date Surveyed	27, 1992 eal of
					-	Certificate No. 7254	John S. Piper

1500

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2000

State of New Mexico Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION** 

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 Form C-102

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

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

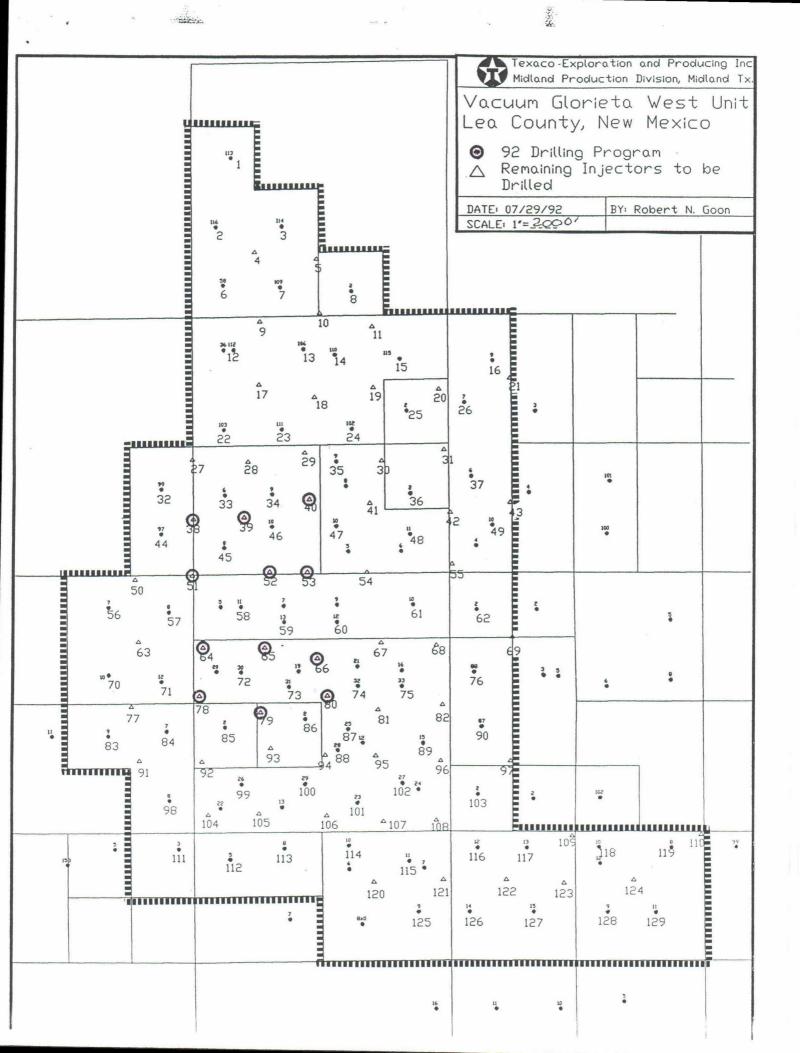
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

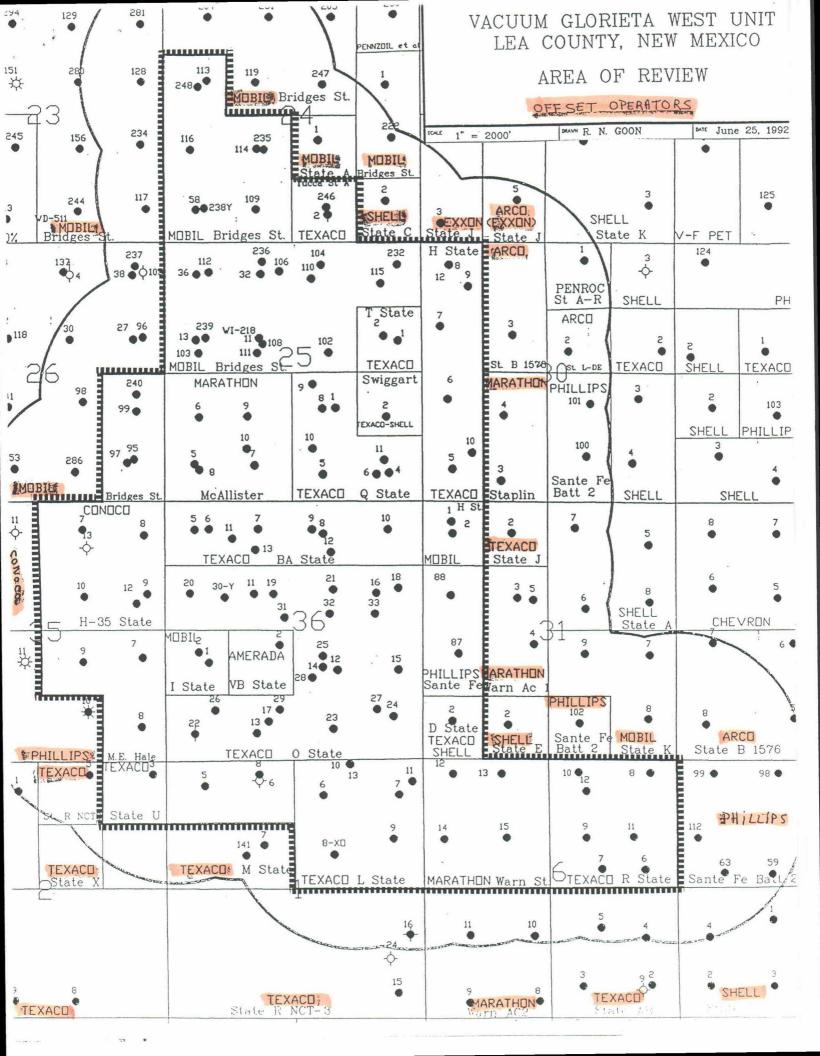
WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

Revised 1-1-89

2552 (G)

perator					Lease				Well No.	
rexaco ex	PL.	AND PF	ROD. Inc.		VACUUM	GLORIETA	WEST	UNIT		80
nit Letter	Section		Township	,	Range			County		
G		36	17-Sou	th	34-I	East	NMPM	Lea		
ctual Footage Local	tion of W	ell:					A SAYAA AYA		-	
2517	feet from	the N	orth	line and	2442		feet from	the East	line	
round level Elev.		Producing	Formation		Pool				Dedicated A	creage:
3997			eta; Padd			n @Gloriet		01	40	Acres
2. If more 3. If more unitizat	than one than one ion, force Yes	lease is dedictional lease of difference of difference of difference of the lease of difference of the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease is dedicted by the lease of difference	cated to the well, or erent ownership is d ? No If answ	utline each and ledicated to the wer is "yes" typ	identify the owner well, have the interest of consolidation		s to working	idated by comm		
			and tract description	ns which have	actually been con	solidated. (Use reve	arse side of			
this form			the well notif all is	stangers have be	een consolidated (	by communitization,		formed modifie		
			inating such interes				uniuzation	, torced-pooling	g, or otherwis	ie)
			- B - Mai Intelle	, seen ap						
5	8 •	         	• 59	L152		• 60 l	S	I hereby	certify than in true ar ledge and bel	not)
° 64	2 •	065	-13 880	40 BO 582	. !	•75	C	Osition Divisi Company Texaco Date Septem	on Su Expl.	rveyor & Prod.
85		679	86	88 215 54		89.		on this plat wactual surveys supervison, an correct to the belief.	made by d that the	vell location show from field notes me or under n same is true at ny knowledge at
9	9 •		100		•101	• 102		Date Surveyed August Signature & Se Professional Su Certificate No. 7254	al of urveyor	.992 S. Piper
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#### STATE OF NEW MEXICO

### THE ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION '92 SE' S FIN 8 1200BBS DISTRICT OFFICE

9-8-92

BRUCE KING GOVERNOR

OIL CONSERVATION DIVISION

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

SANTA FE, NEW MEXICO 87501	
RE: Proposed:  MC  DHC  NSL  NSP  SWD  WFX  PMX	Vacuum Dlorieta West U-nit #38-m 25-17-34 #40-K 25-17-34
Gentlemen:	# 52-N 25-17-3x # 53-N 25-17-3x
I have examined the application for the:	# 15- F 36-17-34
Jeyaco Explit Production Lease & Well No.	# 80-4 36 17-37 # 79-K 36-(7-39 Unit S-T-R
and my recommendations are as follows:	
nonstandard locations for the	ese wills were approved
Monstandard locations for the	enable to be staked at
these approved locations.	
#39 #64 #66 1 #78 were all lications of need no further approx Yours very truly,	staked at previously approved
Jerry Sexton Supervisor, District 1	



**Texaco USA**Producing Department Midland TX \*9702-3109
Midland Division

ONL CONSER N DIVISION - PS - VED --

192 SEP 14 FM 9 18

September 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well No. 51 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

Gentlemen:

An exception, by administrative approval, to Rule 104 F.I. is requested for Texaco Exploration and Production Inc.'s Vacuum Glorieta West Unit Well No. 51. This well will be a water injection well in the newly-formed Unit.

This well must be drilled in this location for the purpose of completing an efficient injection/production pattern within our Vacuum Glorieta West Waterflood Project. This well will be completed in the Vacuum Glorieta Pool.

Mobil Producing Texas & New Mexico is the only "affected" offset operator to this well and has been furnished a copy of this request (certified mail receipt attached).

Attached is Form C-102, showing the location of this well, a lease plat showing the existing wells, and a lease plat showing the offset operators.

Yours very truly,

C.R. Basham/cwH

C. P. Basham Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102

<u>DISTRICT 1</u> P.O. Box 1980, Hobbs, NM 88240

**OIL CONSERVATION DIVISION** P.O. Box 2088 Santa Fe, New Mexico 87504-2088

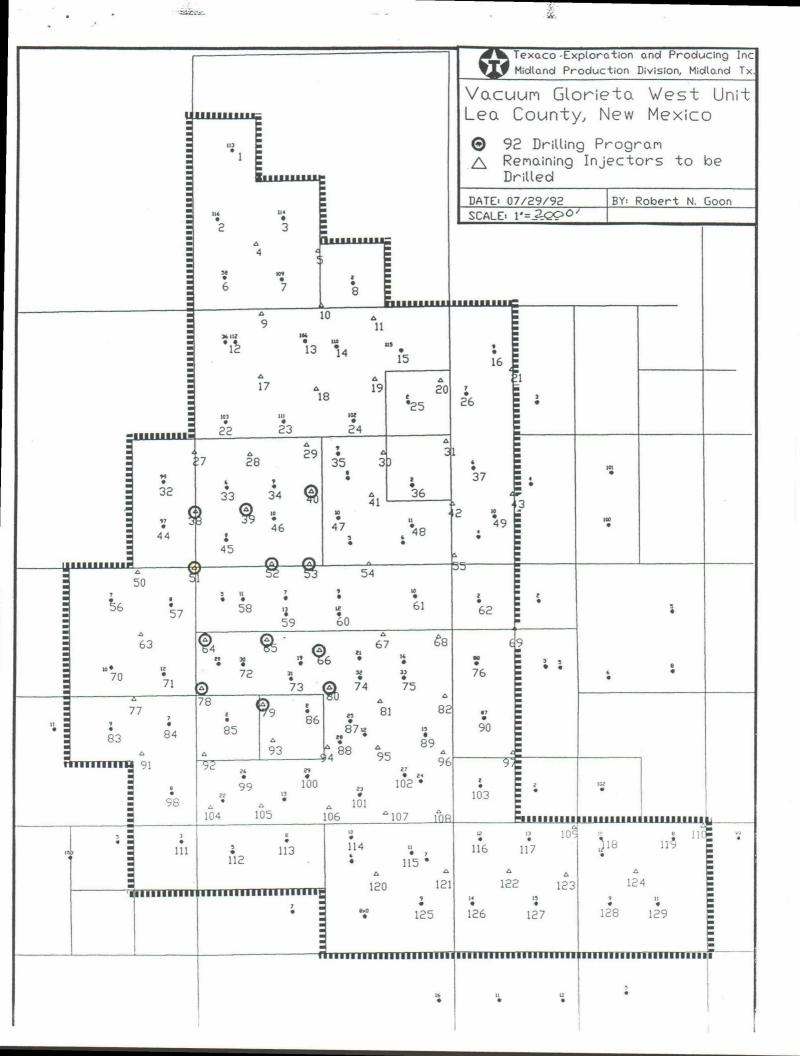
24 /F NL - 31 /FEL

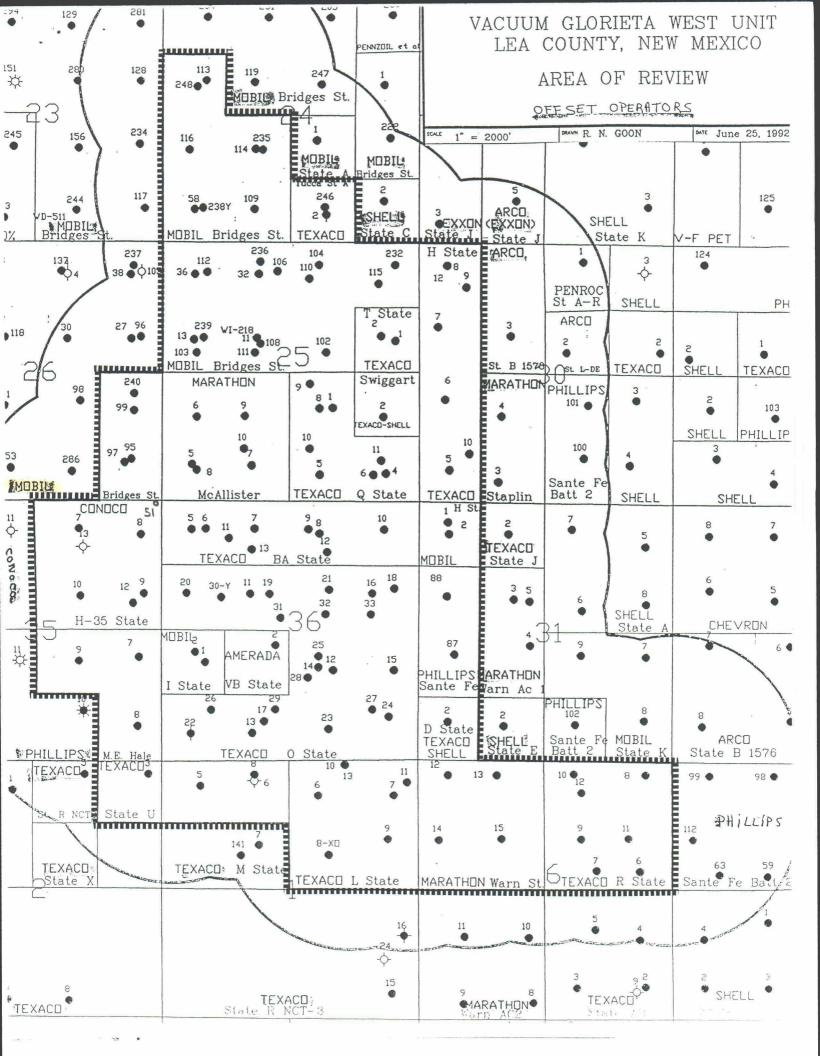
DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd.	., Aziec, NM 8	7410	All Distar	ces must be	from the oute	boundaries of the se	ection			
Operator					Lease				Well No.	
TEXACO EX	XPL. AN	D PRO	D. Inc.		VACUU	M GLORIETA	WEST	UNIT		51
Unit Letter	Section	The second second	wnship	1	Range			County		
A	35		17-Sou	th	34	-East	NMPM	Toa		
Actual Footage Loca	ation of Well:						MAIFIY			
24	feet from the	Nort	.h	line and		101	feet from	the East	line	
Ground level Elev.		oducing For	rmation	1100 800	Pool		Total Holli	410	Dedicated Acre	age:
4009	Glo	rieta	; Paddo	ck	Vacu	um Glorieta	a Poo	1	40	Acres
2. If more unitizated	e than one lease than one lease tion, force-pool Yes	e is dedicate e of differenting, etc.?	d to the well, out ownership is d	stline each and edicated to the ver is "yes" typ	identify the over well, have the	marks on the plat below whership thereof (both a interest of all owners to ion <u>Unitiz</u> consolidated. (Use rev	s to work	olidated by com		
	if neccessary.									
No allow	able will be ass	signed to the	well until all in	derests have be	en consolidate	d (by communitization	unitizatio	n, forced-poolin	g, or otherwise)	
or until a	non-standard t	init, elimina	ting such interes		roved by the L	NVISION.				
<b>P</b>	i						<b>6</b>	<b>OPERAT</b>	OR CERTIF	CATION
			3	5 ——	33.	101 FEL Conoco's 800 "H-State350 800" *2 57	24. FNL	I hereby contained here best of my known signature  Frinted Name  Royce D  Position  Division  Company  Texaco  Date  Survey  I hereby certi, on this plat is actual survey, supervison, au	certify that it in in true and in ledge and belief.  Mario	tt  yor  Prod.  1992  TCATION  location sho n field notes or under
	 -   -   -   -		·	immm	mmmm			Signature & S Professional S Certificate No	eal of urveyor	
								7254	John S.	riber
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Producing Department Midland Division

PO Box 3109 Midland TX 79702-3109

September 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Location Vacuum Glorieta West Unit Well No. 51 Lea County, New Mexico

Mobil Producing Texas & New Mexico P. O. Box 633 Midland, Texas 79702

#### Gentlemen:

As the "affected" offset operator to the captioned well, you are being furnished with a copy of our Application for an Exception to Rule 104, F. I. If you have no objection, please sign the waiver at the bottom of this letter and return in the enclosed envelope.

Any questions concerning this request should be directed to Mr. C. W. Howard at (915) 688-4606.

Yours very truly,

C.P. Basham/cwH

C. P. Basham Drilling Operations Manager

CWH: cwh

File

WAIVER APPROVED:

COMPANY	·:	 <del></del>	 	·
BY:	··· · · · · · · · · · · · · · · · · ·	 	 	
DATE:	···	 	 	<del></del> -

SENDER: Complete items 1 and 2 when additio 3 and 4.  Put your address in the "RETURN TO" Space on the reve from being returned to you. The return receipt fee will protect the date of delivery. For additional fees the following sen and check box(es) for additional service(s) requested.  1.  Show to whom delivered, date, and addressee's (Extra charge)	erse side. Failure to do this will prevent this card vide you the name of the person delivered to and vices are available. Consult postmaster for fees
3. Article Addressed to:	4. Article Number P 894 868 197
Mobil PRODUCING TEXAS & NEW MEXICO P.O. BOX 633 MIDLAND, TX 79702	Type of Service:  Registered Insured  Certified COD  Express Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery SEP - 3 1992	8. Addressée's Address (ONLY if requested and fee paid)
PS Form 3811, Apr. 1989 *U.S.G.RO. 1989-23	8-815 DOMESTIC RETURN RECEIPT

#### **UNITED STATES POSTAL SERVICE OFFICIAL BUSINESS**

#### SENDER INSTRUCTIONS

- Print your name, address and ZIP Code in the space below.

   Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.





PENALTY FOR PRIVATE USE, \$300

**RETURN** TO

Print Sender's name, address, and ZIP Code in the space below.

TEXACO E+P INC. P.O. Box 3109 MIDLAND, TX 79702

ATTN: C. WADE HOWARD

Midland Division

Texaco USA PO 86% 3109
Producing Department Midland FX 24702 3109

September 15, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations - Waiver Vacuum Glorieta West Unit Well No. 51 Lea County, New Mexico

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

Attention: Mr. Michael E. Stogner

#### Gentlemen:

Attached is the approved waiver from Mobil Producing Texas & New Mexico Inc.. They were the only "affected" offset operator to this well. Please process our application for an unorthodox location.

Yours very truly,

< . P. Basham/cwH

C. P. Basham Drilling Operations Manager

CWH: cwh



Texaco USA
Fro-Juding Department
Midland Division

PO Box 3109 Midland TX 79702-3109

SEP 03 1992

Midland South Land/JI

September 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Location
Vacuum Glorieta West Unit
Well No. 51
Lea County, New Mexico

Mobil Producing Texas & New Mexico P. O. Box 633 Midland, Texas 79702

#### Gentlemen:

As the "affected" offset operator to the captioned well, you are being furnished with a copy of our Application for an Exception to Rule 104, F. I. If you have no objection, please sign the waiver at the bottom of this letter and return in the enclosed envelope.

Any questions concerning this request should be directed to Mr. C. W. Howard at (915) 688-4606.

Yours very truly,

C.P. Basham/cwH

C. P. Basham
Drilling Operations Manager

CWH: cwh

File

WAIVER APPROVED:

COMPANY: Mobil Producing Texas & New Mexico Inc.

BI. AUW

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10,1992

## H DIVISION

#### STATE OF NEW MEXICO

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT oil conservation division

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

**BRUCE KING** GOVERNOR

9-10-92

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed: MC DHC NSL  NSP SWD WFX PMX
Gentlemen:
I have examined the application for the:  Leva co Eyph A Prod. Inc. Vicuum Blanctalvist Unit #51-A 35-17-3  Operator Lease & Well No. Unit S-T-R  and my recommendations are as follows:  OK
Yours very truly,  Jerry Sexton Supervisor, District 1

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Case No. 10516 Order No. R-9714

APPLICATION OF TEXACO EXPLORATION AND PRODUCTION INC. FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on July 23, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 3rd day of September, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Texaco Exploration and Production Inc. (Texaco), seeks authority to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum Glorieta Pool, Lea County, New Mexico, through the gross perforated and/or open hole interval from approximately 5,950 feet to 6,230 feet in one existing and fifty-nine wells to be drilled at orthodox and unorthodox locations as shown on Exhibit "A" attached hereto.
- (3) By Order No. R-9710 issued in Case No. 10515 on August 25, 1992, the Division, upon application of Texaco, approved the Vacuum Glorieta West Unit which comprises some 2778.86 acres, more or less, in Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico.

- (4) The vast majority of wells located within the applicant's Vacuum Glorieta West Unit Area are in an advanced state of depletion and should properly be classified as "stripper wells".
- (5) The proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) The applicant should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.
- (7) The injection of water into each of the wells shown on Exhibit "A" should be accomplished through internally cement-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus should be filled with an inert fluid and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing or packer.
- (8) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well should be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.
- (9) The injection wells or pressurization system should be initially equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 1200 psi.
- (10) The Division Director should have the authority to administratively authorize a pressure limitation in excess of the pressure limitation described in Finding No. (9) above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.
- (11) The operator should give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure tests in order that the same may be witnessed.
- (12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Well Nos. 21, 43, 69, 97, 109 and 110, the applicant should be required to submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.

- (13) The application should be approved and the project should be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.
- (14) At the time of the hearing, the applicant requested that the subject waterflood be certified by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).
- (15) The evidence presented indicates that the subject waterflood meets all the criteria for certification.
- (16) The certified "project area" should initially comprise the area approved for statutory unitization by Division Order No. R-9710, and described as follows, provided however, the "project area" and/or the producing wells eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response:

#### TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW/4, SW/4 NW/4, SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4, N/2 SE/4, SE/4 SE/4

Section 36: All

#### TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1, 2, 3, 4 (W/2 W/2)

Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

#### TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM

Section 1: Lots 1, 2, 3, 4 (N/2 N/2), S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

#### TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4, (N/2)

#### IT IS THEREFORE ORDERED THAT:

- (1) The applicant, Texaco Exploration and Production Inc. (Texaco), is hereby authorized to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum-Glorieta Pool, Lea County, New Mexico, through the gross perforated and/or open hole interval from approximately 5,950 feet to 6,230 feet in one existing and fifty-nine wells to be drilled at orthodox and unorthodox locations as shown on Exhibit "A" attached hereto.
- (2) The applicant shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.
- (3) Injection into the wells shown on Exhibit "A" shall be accomplished through cement-lined tubing installed in a packer set approximately within 100 feet of the uppermost injection perforation or casing shoe; the casing-tuning annulus shall be filled with an inert fluid and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing or packer.
- (4) The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 1200 psi.
- (5) The Division Director shall have the authority to administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.
- (6) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well shall be pressure-tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.
- (7) The operator shall give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure tests, in order that the same may be witnessed.
- (8) The applicant shall immediately notify the supervisor of the Hobbs District Office of the Division of the failure of the tubing, casing or packer in any of the injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area, and shall take such steps as may be timely and necessary to correct such failure or leakage.

- (9) The subject waterflood is hereby designated the Vacuum Glorieta West Unit Waterflood Project and shall be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.
- (10) Monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rule Nos. 706 and 1115 of the Division Rules and Regulations.
- (11) The applicant shall be required to obtain Division approval, subsequent to the entry of this order, to drill any injection well located at an unorthodox location closer than 330 feet from the outer boundary of the Vacuum Glorieta West Unit.
- (12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Well Nos. 21, 43, 69, 97, 109 and 110, the applicant shall submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.
- (13) The subject waterflood is a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).
- (14) To be eligible for the EOR credit, the operator must advise the Division when injection operations will commence and request the Division certify the project to the Taxation and Revenue Department.
- (15) The certified "project area" shall initially comprise the area approved for statutory unitization by Division Order No. R-9710, and described as follows, provided however, the "project area" and/or the producing wells eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response:

#### TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW/4, SW/4 NW/4, SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4, N/2 SE/4, SE/4 SE/4

Section 36: All

#### TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1, 2, 3, 4 (W/2 W/2) Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

#### TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM

Section 1: Lots 1, 2, 3, 4 (N/2 N/2), S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

#### TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4, (N/2)

(16) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY

Director

SEAL

# EXHIBIT "A" DIVISION ORDER NO. R-9714 VACUUM GLORIETA WEST UNIT APPROVED NEWLY DRILLED INJECTION WELLS

	LEASE NAME	LOCATION	ULSTR	VGWU WELL NO.
	Bridges State	1360' FSL & 1300' FWL	M-24-17S-34E	4
	Bridges State	1209' FSL & 2582' FWL	N-24-17S-34E	5
•	Bridges State	73' FNL & 1411' FWL	C-25-17S-34E	9
	Yucca State	100' FSL & 2628' FWL	O-24-17S-34E	10
	Bridges State	246' FNL & 1554' FEL	B-25-17S-34E	11
	Bridges State	1328' FNL & 1399' FWL	F-25-17S-34E	17
	Bridges State	1651' FNL & 2543' FWL	F-25-17S-34E	18
	Bridges State	1502' FNL & 1520' FEL	G-25-17S-34E	19
	NM T State NCT-1	1541' FNL & 181' FEL	H-25-17S-34E	20
	NM N State	1330' FNL & 1283' FWL	E-30-17S-35E	. 21
	Bridges State	1171' FSL & 34' FEL	I-26-17S-34E	27
	McAllister State	2304' FSL & 1127' FWL	L-25-17S-34E	28
	McAllister State	2522' FSL & 2283' FWL	K-25-17S-34E	29
	NM Q State	2305' FSL & 1391' FEL	J-25-17S-34E	30
	Swiggart	2520' FSL & 128' FEL	I-25-17S-34E	31
*	McAllister State	2387' FSL & 51' FEL 1217 124 FALL	M-25-17S-34E	38
	McAllister State	1194' FSL & 1055' FWL	M-25-17S-34E /	39
*	McAllister State	1570' FSL & 2404' FWL 1540 1/10	″K-25-17S-34E ″	40
·	NM Q State	1437' FSL & 1646' FEL	J-25-17S-34E	41
	NM N State	1250' FSL & 8 FWL	M-30-17S-35E	42
	NM N State	1453' FSL & 1247' FWL	L-30-17S-35E	43
	State H-35	112' FNL & 1214' FEL	A-35-17S-34E	50
4	State H-35	24' FNL & 31' FEL 24'FAL - 101'FEL	A-35-17S-34E	51
*	McAllister State	65' FSL & 1587' FWL 214'#54-1630'	%N-25-17S-34E ✓	52
4	McAllister State	65' FSL & 2350' FWL 216150 23504	√N-25-17S-34E	53
	NM Q State	7' FSL & 1693' FEL	O-25-17S-34E	54
	NM N State	177' FSL & 52' FWL	M-30-17S-35E	55
	State H-35	1370'FNL & 1135' FEL	A-35-17S-34E	63
	NM O State NCT-1	1484' FNL & 204' FWL	E-36-17S-34E	64
*	NM O State NCT-1	1472' FNL & 1492' FWL 154 41 (514)	F-36-17S-34E	65

	LEASE NAME	LOCATION	ULSTR	VGWU WELL NO.
	NM O State NCT-1	1690' FNL & 2577' FWL	F-36-17S-34E	66
	NM O State NCT-1	1435' FNL & 1408' FEL	G-36-17S-34E	67
	NM O State NCT-1	1491' FNL & 280' FEL	H-36-17S-34E	68
	Santa Fe Battery 2	1502' FNL & 1203' FWL	E-31-17S-35E	69
	State H-35	2569' FSL & 1326' FEL	H-35-17S-34E	77
	NM O State NCT-1	2491' FNL & 127' FWL  2461' FSL & 1351' FWL  2552' FNL & 2504' FFL 2501 FM F	E-36-17S-34E	78
*	State VB	2461' FSL & 1351' FWL 25 1351' FWL	K-36-17S-34E	79
*	NM O State NCT-1	2552' FNL & 2504' FEL 287 1544 1	G-36-17S-34E	80
	NM O State NCT-1	2466' FSL & 1505' FEL	J-36-17S-34E	81
	NM O State NCT-1	2576' FSL & 82' FEL	I-36-17S-34E	82
	M.E. Hale	1459' FSL & 1148' FEL	I-35-17S-34E	91
	State I	1451' FSL & 149' FWL	L-36-17S-34E	92
	State VB	1723' FSL & 1575' FWL	K-36-17S-35E	93
	NM O State NCT-1	1525' FSL & 2591' FEL	J-36-17S-34E	94
	NM O State NCT-1	1519' FSL & 1548' FEL	J-36-17S-34E	95
	NM O State NCT-1	142' FSL & 214' FEL	I-36-17S-34E	96
	Santa Fe Battery 2	1419' FSL & 1225' FWL	L-31-17S-35E	97
	NM O State NCT-1	361' FSL & 300' FWL	M-36-17S-34E	104
	NM O State NCT-1	403' FSL & 1340' FWL	N-36-17S-34E	105
	NM O State NCT-1	310' FSL & 2542' FEL	O-36-17S-34E	106
	NM O State NCT-1	184' FSL & 1382' FEL	O-36-17S-34E	107
	NM O State NCT-1	213' FSL & 301' FEL	P-36-17S-34E	108
	Warn State AC 2	96' FNL & 2498' FWL	C-6-18S-35E	109
	NM R State NCT-1	74' FNL & 56' FEL	A-6-18S-35E	110
	NM L State	1102' FNL & 1575' FEL	B-1-18S-34E	120
	NM L State	1014' FNL & 140' FEL	A-1-18S-34E ·	121
	Warn State AC 2	1000' FNL & 1136' FWL	D-6-18S-35E	122
	Warn State AC 2	1080' FNL & 2344' FWL	C-6-18S-35E	123
	NM R State NCT-1	1020' FNL & 1419' FEL	B-6-18S-35E	124

### **EXISTING WELL TO BE CONVERTED TO INJECTION**

#### STATE OF NEW MEXICO



E

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

December 8, 1992

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

Texaco Exploration and Production, Inc. P.O. Box 3109
Midland, TX 79702-3109

Attention: C.P. Basham

RE: Amendments for injection well locations for the Vacuum Glorieta West Unit as approved by Division Order No. R-9714.

Dear Mr. Basham:

We have received your applications dated December 2, 1992 for injection well location changes and it appears there may be more in the future. In reviewing your application, we are unclear as to how obstacles such as buildings, roads, electrical lines, pipelines, etc. were overlooked in the planning and preparation of Case No. 10516 which resulted in the above-referenced order.

In order to consider your request for amended locations, please submit a *detailed* plat of the subject area showing the approved location, proposed location and any and all obstructions to be avoided.

A similar plat will be required an all requests of this nature in the future.

Sincerely,

Michael E. Stogner

Chief Hearing Officer/Engineer

MES/amg

cc: William J. LeMay, OCD Director

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

November 10, 1992

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, Texas 79702-3109

Attention: C.P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division Order No. R-9714

Dear Mr. Basham:

Reference is made to your letter dated November 2, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), for two injection well locations, both previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorita West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations for its Vacuum Glorieta West Unit well Nos. 17 and 19 as to avoid buried pipelines that evidently Texaco's personnel were not aware existed at the time said Case No. 10516 was brought before the Division.

By the Authority granted to me under the provisions of General Rule 104.F. the following unorthodox injection well locations are hereby approved. Further Exhibit "A" of said Order No. R-9714 shall be amended to reflect the following location changes::

Lease Name	Corrected Footage Location	U-S-T-R	VGWU Well No.
Bridges State	1228'FNL-1399'FWL	C-25-17S-34E	17
Bridges State	1501'FNL-1620'FEL	G-25-17S-34E	19

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

WILLIAM J. LEMA

Director

WJL/MES/vlb

cc. Oil Conservation Division - Hobbs

File: Case No. 10516

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach



Midland Division

Texaco USA 90 Bax 3109 Producing Department Midland TX 79/02-3102

JIL CONSER. . . N DIVISION REC: JED

'92 NO : 5 AM 8 46

Mr. 5.

November 2, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well Nos. 17 and 19 Lea County, New Mexico

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

Attention: Mr. David R. Catanach

Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well No. 17 had to be moved 100' North because of a buried pipeline and Well No. 19 had to be moved 100' West because of a buried pipeline.

Attached are Forms C-102, showing the amended locations for each well.

Yours very truly,

C. P. Basham/cwH

C. P. Basham Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

<u>DISTRICT 1</u> P.O. Box 1980, Hobbs, NM 88240

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator					Lease				Well No.	
TEXACO	EXPL.	AND	PROD.	Inc.	VACU	UM GLORIETA	WEST	UNIT	17	
Unit Letter	Section		Township	,	Range			County		
C	2	5	1	7-South	34	-East	NMPM	Lea	a	
Actual Footage Loc	ation of We	И:	A				A SATAR ATA			
1228	feet from	the No	orth	line and	1399		feet from	the West	line	
Ground level Elev.			Formation		Pool				Dedicated Acreage:	
4008		Glori	eta: P	addock	Va	cuum Glorie	eta Po	ool	40 Acres	
1. Outlin					ncil or hachure	marks on the plat below	·.		NACO	
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization,										
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Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

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

Form C-102 Revised 1-1-89

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator						Lanca			_		Wall No	
	HILD	7.110	DDOD	Т.,	_	Lease	UM GLOR	TEMA ME	cr	יי דואודיי	Well No.	19
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3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization.												
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#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

January 8, 1993

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

Texaco Exploration and Production Company P.O. Box 3109 Midland, TX 79702-3109

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division Order No. R-9714.

Dear Mr. Basham:

Reference is made to your letter dated December 17, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to five certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations of five particular wells due to minor difficulties encountered when actually staking the locations.

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Texaco Exploration and Production Attention: C. P. Basham January 8, 1993 Page 2

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Lease Name	Corrected Footage Location	U-L-S-T-R	YGWU Well No.
Bridges State	1410' FSL - 1300' FWL	L-24-17S-34E	4
NM "Q" State	1377' FSL - 1646' FEL	J-25-17S-34E	41
NM "O" State	1728' FNL - 351' FEL	H-36-17S-34E	68
NM "O" State	2576' FSL - 149' FEL	I-36-17S-34E	82
State "I"	1426' FSL - 199' FWL	L-36-17S-34E	92

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay

Director

WJL/MES/jc

cc: Oil Conservation Division - Hobbs

File: Case No. 10516

Oil Conservation Division - Michael E. Stogner Oil Conservation Division - David R. Catanach

Texaco Exploration and Production Company P.O. Box 3109 Midland, TX 79702-3109

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment Division Order No. R-9714.

Dear Mr. Basham:

Reference is made to your letters dated September 2, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to eight certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations of eight particular wells due to minor difficulties encountered when actually staking the locations.

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

Lease Name	Corrected Footage Location	U-L-S-T-R	VGWU Well No.
Bridges State	1410 FSL -1300 FWL	1-24-175-246	- 4
NM "Q" State	1377 FSC - 1646 EEC	J-25-175-34E	- 41
NM "O" State	1728 FNI - 351 FEL	H-36-175-34E	_ 68
NM "O" State	2576 FSL-149 FEL	1-36-175-34E	_ 82
State "I"	1426'ESL - 199'EAR	1-36-175-34E	- 92

All other provisions of said Order No. R-9714 shall remain in full force and effect until further notice.

Sincerely,

William J. LeMay

Director

WJL/MES/amg

Oil Conservation Division - Hobbs cc:

File: Case No. 10516

Oil Conservation Division - Michael E. Stogner

Oil Conservation Division - David R. Catanach

(b) Notice: 15 days before the hearing or by the 1st day of the month in which the hearing is held. Division of Oil, Gas and Mining.

#### Bond

- 1. Compliance bond required: Yes.
- 2. Conditions of bond: To the extent it constitutes a plugging and site reclamation bond.
  - (a) Amount per well: \$10,000.
  - (b) Amount of blanket bond: \$50,000.

#### Spacing

- 1. Spacing requirements: Yes. General statewide well siting and locating.
  - (a) Density: 40 acres for oil well, 640 acres for gas well general well spacing requirements.
  - (b) Lineal: 1,000 feet between oil wells, 4,960 feet between gas wells.
- 2. Exceptions: Yes.
  - (a) Basis: Geological and/or topographical exceptions.
  - (b) Approval: Administratively providing that necessity and lease ownership are substantiated.

#### Pooling

- 1. Authority to establish voluntary: Yes.
- 2. Authority to establish compulsory: Yes.

#### Drilling Permit

- 1. Require permits for:
  - (a) Drilling a producing or service well? Yes.
  - (b) Seismic drilling? Yes.
  - (c) Recompletion? Yes.

91111

UT - 1

MCBUCY USE UNITY I Name

Midland Division

OIL CONSERVE ON DIVISION FILL. ED.

PG Bex 3109

PC Box 3104 Midiano TX 79702:3109 SS2 DE 121 / III/ 9 54

December 17, 1992

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Vacuum Glorieta West Unit Well Nos. 4, 41, 68, 82, and 92 Lea County, New Mexico

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

Attention: Mr. David R. Catanach

Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 4, 41, and 68 were moved because of pipelines. Well No. 82 was moved because of an electric line. Well No. 92, permitted December 3, 1992, had to be moved because of topography. This move will avoid making a four foot cut to build the location.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C.P. Basham/cwH

C. P. Basham Drilling Operations Manager

CWH: cwh

cc: NMOCD, P. O. Box 1980, Hobbs, NM 88240

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

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

Form C-102 Revised 1-1-89

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

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

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

TEXACO EXPL. AND PROD. Inc.  Unit Letter  L  24  17-South  34-East  NMPM  Lea  Actual Footage Location of Well:  1410  Geet from the South  Ground level Elev.  4011  Glorieta; Paddock  1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization,	4											
Lea  Actual Footage Location of Well:  1410   feet from the   South   line and   1300   feet from the   West   line    Ground level Elev.   Producing Formation   Pool   Dedicated Acreage:    4011   Glorieta; Paddock   Vacuum Glorieta Pool   40    1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
Actual Footage Location of Well:  1410												
Actual Footage Location of Well:  1410 feet from the South line and 1300 feet from the West line  Ground level Elev. Producing Formation Pool  4011 Glorieta; Paddock Vacuum Glorieta Pool  1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
Ground level Elev. Producing Formation Pool Dedicated Acreage: 4011 Glorieta; Paddock Vacuum Glorieta Pool 40  1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
4011 Glorieta; Paddock Vacuum Glorieta Pool 40  1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.      If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
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5. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization,												
unitization, force-pooling, etc.?												
Yes No If answer is "yes" type of consolidationUnitization												
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of												
this form if neccessary												
or until a non-standard unit, eliminating such interest, has been approved by the Division.												
© OPERATOR CERTIFICA	TION											
I hereby certify that the												
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Charge D. Wariel	0											
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## , TEXACO EXPLORATION AND PRODUCTION INC OB Vacuum Glorieta West Uint Loc. 4

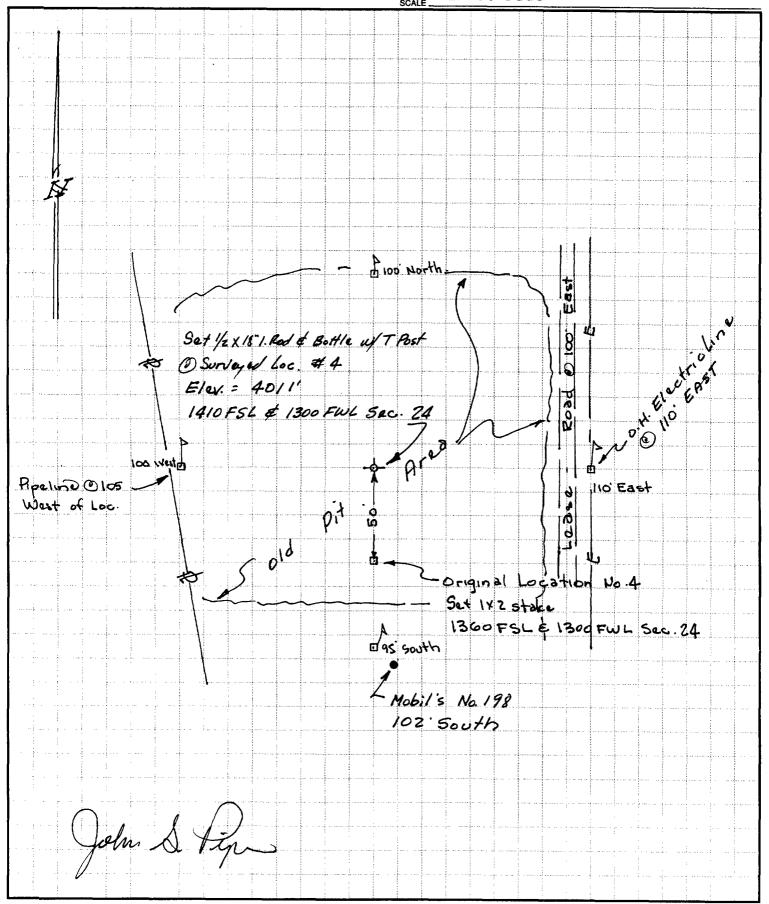
#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 SHEET NO. 1 OF 2

CALCULATED BY O. Flores DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92

1"=50 Feet



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

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

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator						Lease					Well No.
TEXACO	EXPL.	AND	PROD.	Inc.		VACUU	JM GI	ORIETA	A WES'	T UNIT	41
Unit Letter	Section		Township		1	Range				County	
J	2:	5	1	7-So	uth	34	-Eas	t	NMPM	Le	ea
Actual Footage Loc	cation of We	И:									
1377	feet from	uic	uth		line and	1646			feet from	the East	TILLC
Ground level Elev.	1	_	Formation			Pool					Dedicated Acreage:
3995		-	eta; F	-			-	Glori		001	40 Acres
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.											
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).											
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?											
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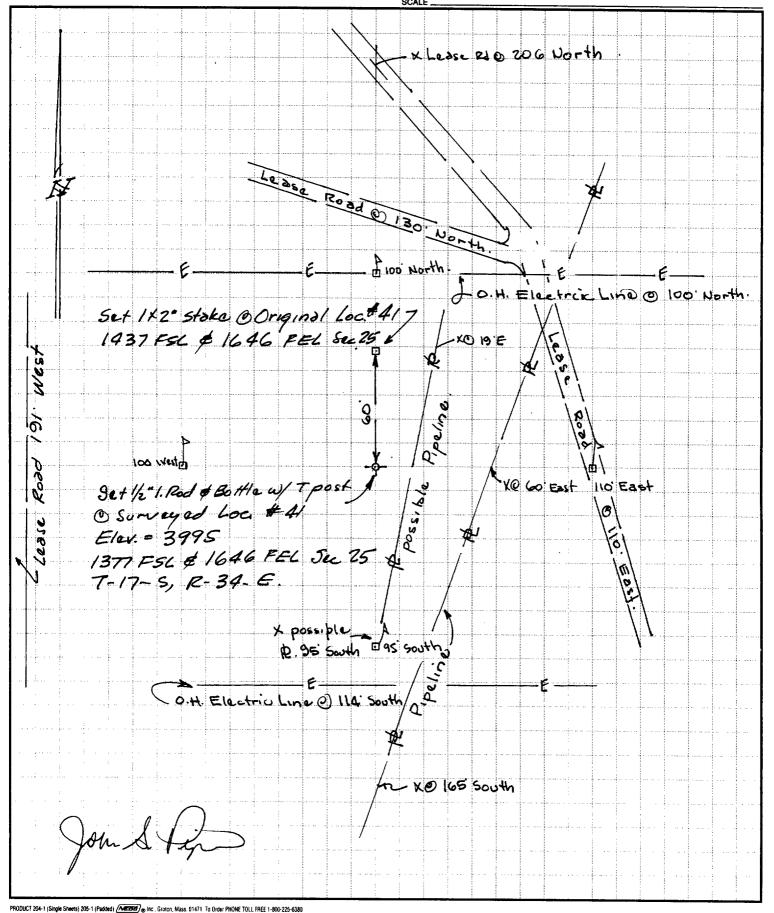
#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 SHEET NO. 1 OF 2

CALCULATED BY O. Flores DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92



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

Form C-102 Revised 1-1-89

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

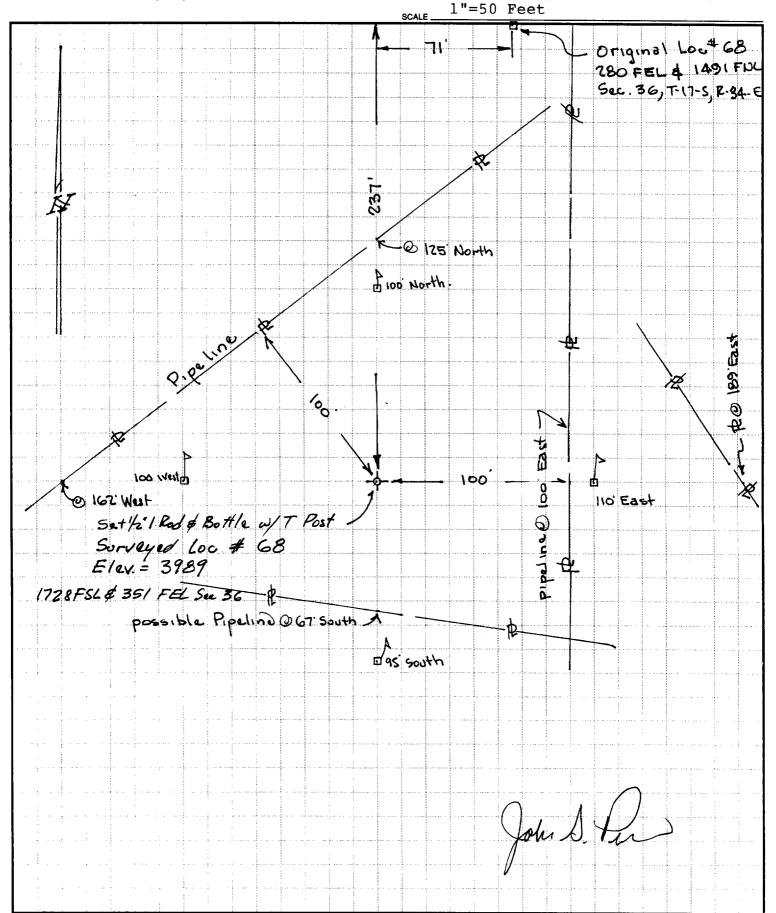
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TEXACO EX	KPL. A	AND PR	ROD. Inc.	•	VACUUM	GLORIETA	WEST	UNIT	68			
Unit Letter	Section		Township	,	Range		*************	County				
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#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810 OF 2

CALCULATED BY O. Flores DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92



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

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

Form C-102 Revised 1-1-89

#### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

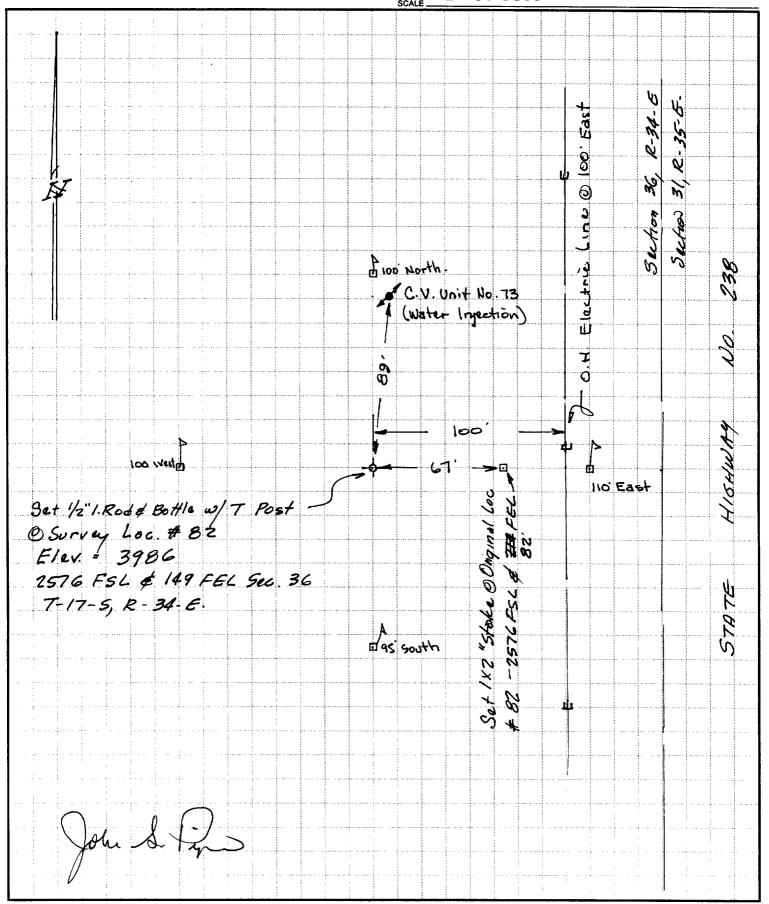
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

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TEXACO EXPL	. AND PROD. Inc.		VACUUM	GLORIETA WE	ST	UNIT 82				
Unit Letter Section			ange			County				
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3986 Glorieta; Paddock Vacuum Glorieta Pool 40 Acres  1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.										
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#### PIPER SURVEYING COMPANY

P.O. Box 60432 MIDLAND, TEXAS 79711 (915) 550-7810

OB Vacuum Glorieta	West Uint Loc. 82
SHEET NO1	of2
CALCULATED BY O. Flores	
CHECKED BY J.S. Piper	DATE 12/14/92
1"=50 Feet	



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

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

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator	The fact that the fact of the		Lease			Well No.
TEXACO EXPL.	AND PROD. Inc.		VACUUM	GLORIETA WES	T UNIT	92
Unit Letter Section		,	Range		County	
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or until a non-sta	ndard unit, eliminating such inter	est, has been app	roved by the Div	vision.	idoli, loloca-poolii	g, or outerwise)
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## JOB Vacuum Glorieta West Uint Loc. 92

PIPER SURVEYING COMPANY
P.O. Box 60432
MIDLAND, TEXAS 79711
(915) 550-7810

SHEET NO. 1 OF 2

CALCULATED BY O. Flores DATE 12/14/92

CHECKED BY J.S. Piper DATE 12/14/92

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# STATE OF NEW MEXICONISION ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION 25 HOBBS DETAILS OFFICE 12-18-92

**BRUCE KING** GOVERNOR

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501		
RE: Proposed:  MC DHC NSL X amend previous NSP SWD WFX PMX	usly approved locations	
Gentlemen:	Vacuum Blorita West ut	4-224-17-3
I have examined the application for the		68-H 36-17-3
Levaco Explit Pool for		82-I36-17-3
Operator Lease & Wel	l No. Unit S-T-R	92-2 36-17-3
and my recommendations are as follows:	Wwell bore were	e behea
- on organal a	ppliate	
Yours very truly,  Jerry Sexton Supervisor, District 1		·
(		

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**OIL CONSERVATION DIVISION** 



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

January 8, 1993

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

Texaco Exploration and Production Company P.O. Box 3109
Midland, TX 79702-3109

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division Order No. R-9714.

Dear Mr. Basham:

Decomber 17

Reference is made to your letters dated September 2, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to eight certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

Said Division Order R-9714 authorized the applicant to institute its Vacuum Glorieta West Unit Waterflood Project in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico by permitting the injection of water into one existing well and fifty-nine wells to be drilled.

At this time, Texaco is seeking to change the proposed locations of eight particular wells due to minor difficulties encountered when actually staking the locations.

By the authority granted me under the provisions of General Rule 104.F. the following eight unorthodox injection well locations are hereby approved. Further, Exhibit "A" of Order No. R-9714 shall be amended to reflect the following location changes:

#### STATE OF NEW MEXICO

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



(202) 857-5800

STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504

POST OFFICE BOX 2088

January 8, 1993

CONEUNOR BRUCE KING

CABINET SECRETARY

Texaco Exploration and Production Company P.O. Box 3109 Midland, TX 79702-3109

Attention: C. P. Basham, Drilling Operations Manager

RE: Administrative Amendment to Division Order No. R-9714. Dear Mr. Basham:

Reference is made to your letters' dated September 2, 1992 requesting exceptions, pursuant to Division General Rule 104.F(1), to eight certain injection well locations, all previously approved by Division Order No. R-9714, issued in Case No. 10516 and dated September 3, 1992, all in the Vacuum-Glorieta Pool, Vacuum Glorieta West Unit, Lea County, New Mexico.

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Texaco North America Per decision - Pernian Basicass Cus

500 North Lollaine Midland TX 79701

인 Box 3109 Midland TX 79702

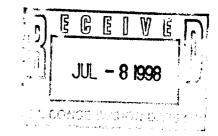
July 2, 1998

State of New Mexico
Oil Conservation Division
New Mexico Department of
Energy, Minerals, and Natural Resources
Post Office Box 6429
Santa Fe, New Mexico 87505

EOR STATUS REPORT
Vacuum Glorieta West Unit

Lea County, New Mexico





#### Gentlemen:

RE:

Texaco Exploration & Production Inc., as operator of the Vacuum Glorieta West Unit, submits its annual production report on the Vacuum Glorieta West Unit as required by Rule F1a of the Rules and Procedures for Qualifications of Enhanced Oil Recovery Projects and Certification for the Recovered Oil Tax Rate promulgated by Division Order No. R-9708 on August 27, 1992. The project is still a viable EOR project as approved by Division Order No. R-9714 on December 8, 1992. The Positive Production Response Certification was granted by Division Order No. R-10321 on March 7, 1995. The effective date of certification was January 1, 1994.

Attached are production curves of oil, gas, and water production as well as water injection and average injection pressure. This data is also given in tabular form with the production and injection well counts back to the start of the Unit.

If any additional information is required, please contact Kevin F. Hickey at (915) 688-2950.

Yours very truly,

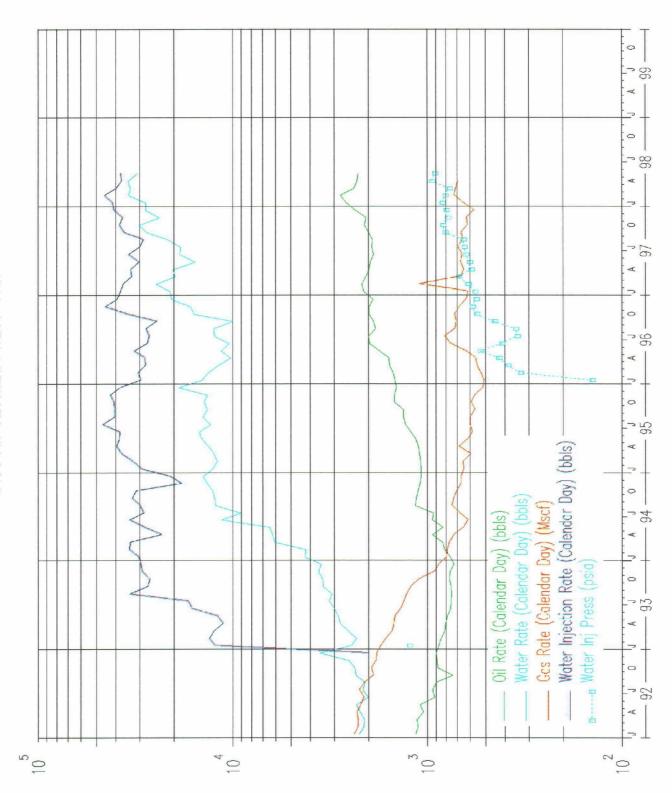
Charles E. Sadler

Asset Team Manager

harles E. Sueller / KFH

KFH-NAZ

Attachment



## **VACUUM GLORIETA WEST UNIT**

DATE	Oil	Gas	Water	Water Inj.	WI Press	Producers	Injectors
1/1/92	35585	74034	69746	0	0	48	0
2/1/92	32366	66376	61282	0	0	44	0
3/1/92	35110	71051	65489	0	0	45	0
4/1/92	31448	69440	66281	0	0	46	0
5/1/92	33899	68738	71820	0	0	45	0
6/1/92	27613	64085	60374	0	0	45	0
7/1/92	29165	70115	66478	0	0	45	0
8/1/92	28050	65143	64723	0	0	44	0
9/1/92	22283	57247	69744	0	0	43	0
10/1/92	27488	60651	73163	0	0	46	0
11/1/92	26736	55354	76071	0	0	47	0
12/1/92	28015	56726	110134	63222	92	47	12
1/1/93	27074	54095	76516	382609	245	47	12
2/1/93	23822	46212	65003	371130	41	47	12
3/1/93	25248	47217	78906	388962	50	48	12
4/1/93	24120	45017	84206	338319	92	48	12
5/1/93	24540	45805	88947	371439	73	48	12
6/1/93	22872	41384	89835	487558	36	48	18
7/1/93	23424	41252	99282	524936	40	48	19
8/1/93	23234	39854	96202	1054527	46	49	33
9/1/93	22723	36662	102672	825022	50	49	45
10/1/93	23815	34434	106903	828986	46	48	51
11/1/93	22966	27727	108560	875219	48	48	52
12/1/93	22713	27099	108844	925971	59	48	52
1/1/94	23604	24817	131423	943064	42	50	52
2/1/94	22849	22286	118117	953685	51	54	52
3/1/94	25860	24050	189109	1046876	57	54	52
4/1/94	28284	22016	187187	693720	51	54	52
5/1/94	25816	20277	200459	881626	66	52	54
6/1/94	28350	18680	342619	1023529	38	52	54
7/1/94	28899	21344	281025	890654	18	54	54
8/1/94	35692	23249	378616	929552	43	54	54
9/1/94	34226	22080	372406	991993	46	51	54
10/1/94	34698	22062	392426	976979	43	50	54
11/1/94	32819	20270	404814	554501	50	51	54
12/1/94	33398	20857	441169	650536	49	50	52
1/1/95	33356	20270	393037	910601	49	47	51
2/1/95	30372	18436	335907	914019	57	47	53
3/1/95	33973	18668	384914	1154733	57	49	54
4/1/95	33374	20771	397214	1191641	59	50	54
5/1/95	35671	19313	446676	1189191	65	50	54
6/1/95	36530	17719	447450	1144707	48	50	54
7/1/95	39989	18773	403051	1244944	58	49	54
8/1/95	41126	18818	439608	1263792	66	48	54
9/1/95	39766	17218	405994	1217661	72 	47	54
10/1/95	45795	18572	434682	1272167	78 24	45 45	54
11/1/95	44222	17179	405489	1279338	81	45	54
12/1/95	44798	16087	584999	1180128	88	43	54

### **VACUUM GLORIETA WEST UNIT**

DATE	Oil	Gas	Water	Water Inj.	Wi Press	Producers	Injectors
1/1/96	45497	15894	446923	924477	143	41	53
2/1/96	43338	15520	386499	893020	333	42	47
3/1/96	48476	17316	367605	871669	389	43	48
4/1/96	47322	17067	307100	850389	431	41	41
5/1/96	54300	19709	356416	994417	537	40	44
6/1/96	58605	22640	309401	820022	417	40	41
7/1/96	61947	25219	383560	836852	346	40	41
8/1/96	57267	22390	387678	866905	352	39	40
9/1/96	56705	21396	299721	739765	454	39	39
10/1/96	61831	22584	490152	1074460	560	41	46
11/1/96	59768	20637	493194	1120315	591	42	50
12/1/96	59082	19664	641351	1220275	564	42	50
1/1/97	65791	19211	649713	1176597	570	42	50
2/1/97	60809	30929	690601	1029631	618	40	50
3/1/97	63907	20860	612466	1027651	691	40	50
4/1/97	59522	19649	607657	1007118	597	40	50
5/1/97	60896	20996	486337	943884	609	40	50
6/1/97	56693	20016	558714	1032266	634	38	50
7/1/97	59726	21773	574760	938941	649	39	49
8/1/97	59273	20407	667403	893725	658	39	49
9/1/97	60015	20227	829197	1088647	815	38	49
10/1/97	65207	19419	934328	1193014	834	37	52
11/1/97	62121	18967	717627	1108435	788	39	52
12/1/97	72754	17955	868873	1269931	805	38	51
1/1/98	80838	20390	865685	1289190	838	36	51
2/1/98	78378	20555	959164	1286796	814	36	47
3/1/98	74075	22266	1042994	1239161	774	38	51
4/1/98	68948	21047	1037163	1124376	951	37	<b>51</b> .
5/1/98	70512	0	959332	1173455	919	38	51

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 10516

APPLICATION OF TEXACO EXPLORATION AND PRODUCTION, INC. FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO

RECEIVED

JUI 1 1 1992

OIL CONSERVATION DIVISION

#### ENTRY OF APPEARANCE

COMES NOW Kellahin, Kellahin & Aubrey (W. Thomas Kellahin, Esq.) and enters their appearance on behalf of MARATHON OIL COMPANY in the above-captioned matter.

Respectfully submitted,

KELLAHIN, KELLAHIN & AUBREY,

Bv:

W. Thomas Kellahin Post Office Box 2265

Santa Fe, New Mexico 87504

(505) 982-4285

#### CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing Entry of Appearance was hand-delivered to Texaco Exploration and Production Inc., c/o William F. Carr, Campbell, Carr, Berge & Sheridan, Jefferson Place, San Francisco and Guadalupe Streets, Santa Fe, New Mexico 87501 on this 15th day of July, 1992.

W. Thomas Kellahin

#### CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY
PATRICIA A MATTHEWS
MICHAEL H. FELDEWERT

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SANTA FE, NEW MEXICO 87504-2208

TELECOPIER (505) 988-4421
TELECOPIER (505) 983-6043

Pase 10516

July 1, 1992

#### **HAND-DELIVERED**

RECEIVED

JID by Buch

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

**QIL CONSERVATION DIVISION** 

Re: In the Matter of the Application of Texaco Exploration and Production Inc. for a Waterflood Project, Lea County, New Mexico

Dear Mr. LeMay:

Enclosed are two complete copies of Texaco Exploration and Production Inc.'s Form C-108 in the above-referenced case. This case is currently scheduled for hearing before a Division Examiner on July 23, 1992.

By copy of this letter, we are also transmitting to the Hobbs District Office a complete Form C-108 in this case.

Very truly yours,

WILLIAM F. CARR

WFC:mlh Enclosures

cc w/enc.: Mr. Mike Mullins

### CASE 105/6:

Application of Texaco Exploration and Production Inc. for approval of a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its Vacuum Glorieta West Unit Waterflood Project by injection of water into the Glorieta and Paddock formations through sixty injection wells located in the following described area:

#### TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M.

Section 24: SW/4; SW/4 NW/4; SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4; N/2 SE/4; SE/4 SE/4

Section 36: All

RECEIVED

OIL CONSERVATION DIVISION

JIM TOPAL

#### TOWNSHIP 17 SOUTH, RANGE 35 EAST, N.M.P.M.

Section 30: Lots 1, 2, 3, 4 (W/2 W/2) Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

#### TOWNSHIP 18 SOUTH, RANGE 34 EAST, N.M.P.M.

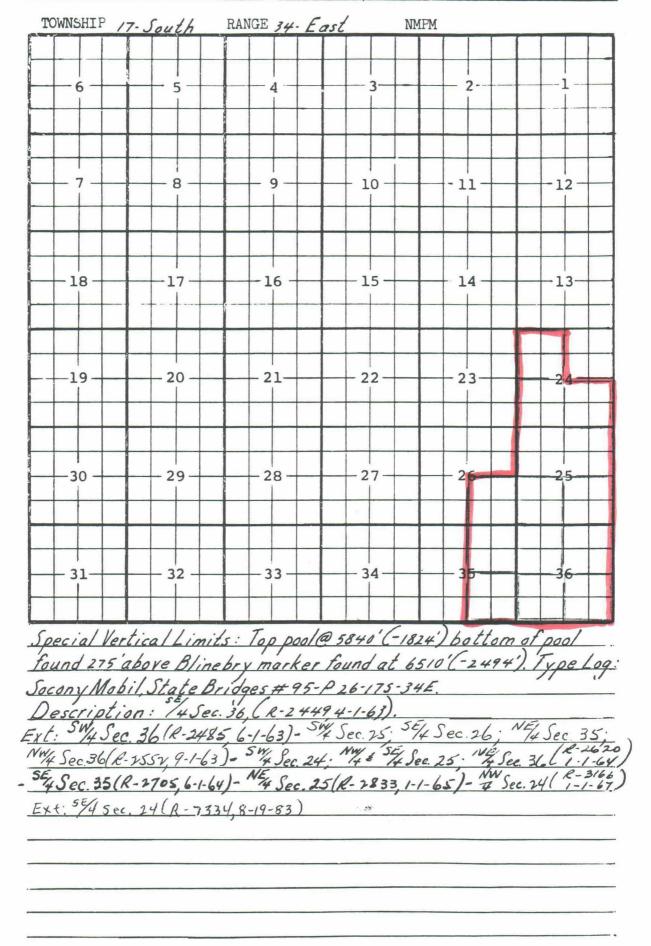
Section 1: Lots 1, 2, 3, 4; S/2 NE/4

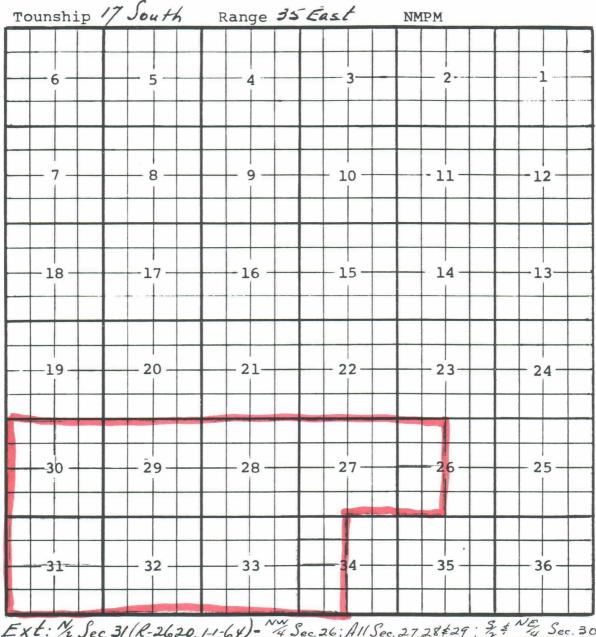
Section 2: Lot 1 (NE/4 NE/4)

#### TOWNSHIP 18 SOUTH, RANGE 35 EAST, NaMa,P.M.

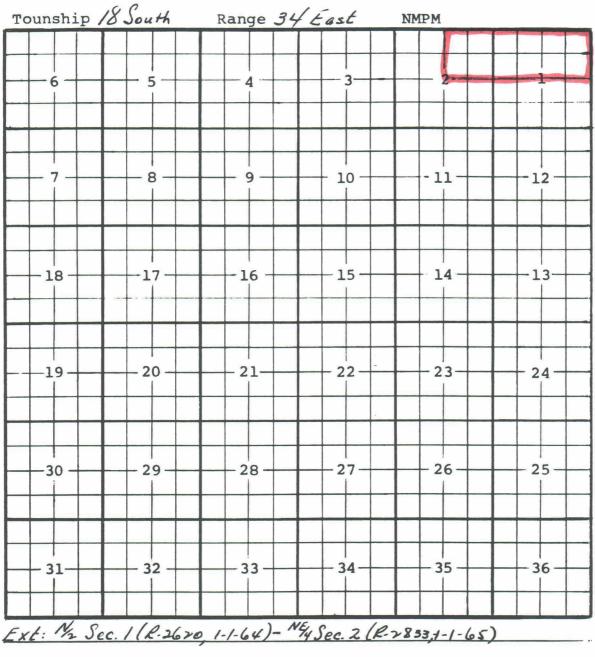
Section 6: Lots 1, 2, 3, 4, 5; SE/4 NW/4; S/2 NE/4 (N/2)

The applicant requests that the Division establish procedures for the administrative approval of additional injection wells within the unit area without the necessity of further hearings and the adoption of any provisions necessary for such other matters as may be appropriate for said waterflood operations. Said area of interest is located





Ext: 1/2 Sec. 31 (R-2620, 1-1-64) - 1/4 Sec. 26; All Sec. 27, 28 \$ 29; \$ \$ 1/4 Sec. 30; \$ Sec. 31: All Sec. 32 \$ 33. 1/4 N/4 Sec. 34 (R-2705, 6-1-64) - N/4 Sec. 30; \$ 1 N/4 Sec. 34 (R-2705, 6-1-64) - SN/4 Sec. 34 (R-2870, 3-1-65) - SW Sec. 34 (R-2967, 10-1-65)



#### STATE OF NEW MEXICO

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Case No.	10516
Order No.	. R

APPLICATION OF TEXACO EXPLORATION AND PRODUCTION INC. FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

### TEXACO'S PROPOSED ORDER OF THE DIVISION

#### **BY THE DIVISION**:

This cause came on for hearing at 8:15 a.m. on July 23, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this \_\_\_\_ day of July, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Texaco Exploration and Production Inc. ("Texaco") seeks authority to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum Glorieta Pool, through the gross perforated and/or open hole interval from approximately 5,950 feet to a depth of 6,230 feet in sixty (60) existing or newly drilled wells as shown on Exhibit "A" attached hereto.

Case No. 10516
Order No. R
Page 2

- (3) By Order No. R-\_\_\_\_ issued in Case No. 10515 on July \_\_\_\_, 1992, the Division, upon application of Texaco, approved the Vacuum Glorieta West Unit which comprises some 2778.86 acres, more or less, in Townships 17 and 18 South, Ranges 34 and 35 East, N.M.P.M., Lea County, New Mexico.
- (4) The vast majority of wells located within the applicant's Vacuum Glorieta West Unit Area are in an advanced state of depletion and should properly be classified as "stripper wells".
- (5) The proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) The applicant should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or unto the surface from injection, production, or plugged and abandoned wells.
- (7) The injection of water into each of the wells shown on Exhibit "A" should be accomplished through internally cement-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus should be filled with an inert fluid and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing or packer.
- (8) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well should be pressure tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.
- (9) There are sixty (60) proposed injection wells and sixty-nine (69) producing wells located within the "area of review", shown on Exhibit "B" attached hereto, which may not be completed or cemented in such a manner which will assure that their wellbores will not serve as a conduit for movement of injected fluid out of the injection interval.
- (10) Prior to initiating injection operations into the sixty (60) proposed injection wells or in any other injection well located within one-half mile of any of the producing wells shown on Exhibit "B", the applicant should be required to complete or re-cement or undertake such other actions as are necessary to assure that said wells are completed in a manner which will assure that these wellbores will not serve as a conduit for migration of injected fluid and to the satisfaction of the supervisor of the Hobbs District Office of the Division.

Case No. 10516	
Order No. R	
Page 3	

- (11) There are fifteen (15) previously plugged and abandoned wells located within the "area of review" as shown on Exhibit "C" attached hereto.
- (12) Prior to initiating injection operations into any injection well located within one-half mile of the wells shown on Exhibit "C", the applicant should be required to demonstrate to the satisfaction of the supervisor of the Hobbs District Office of the Division that these wellbores will not serve as a conduit for migration of injected fluid.
- (13) The injection wells or pressurization system should be initially equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 0.2 psi per foot of depth to the top injection perforation, or in the case of open hole completions, the casing shoe.
- (14) The applicant presented information regarding the exact location of injection perforations or open hole injection intervals in each of the proposed sixty (60) injection wells.
- (15) If the injection interval in any well is changed, applicant should be required to submit the exact location of the injection interval in each proposed injection well to the Santa Fe Office of the Division in order that maximum surface injection pressures may be assigned to such wells.
- (16) The Division Director should have the authority to administratively authorize a pressure limitation in excess of the pressure limitation described in Finding No. (13) above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.
- (17) The operator should give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment, of the mechanical integrity pressure tests, and of the conductance of any remedial cement or plugging operations in order that the same may be witnessed.
- (18) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Wells 21, 43, 69, 97, 109 and 110, the applicant should be required to submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.

Case 1	<b>No.</b> 1	1051	6	
Order	No.	R		
Page 4	4			

(19) The application should be approved and the project should be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

#### IT IS THEREFORE ORDERED THAT:

- (1) The applicant, Texaco Exploration and Production Inc. ("Texaco") is hereby authorized to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum Glorieta Pool, through the gross perforated and/or open hole interval from approximately 5,950 feet to a depth of 6,230 feet in sixty (60) existing or newly drilled wells as shown on Exhibit "A" attached hereto.
- (2) The applicant shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or unto the surface from injection, production, or plugged and abandoned wells.
- (3) Injection into the proposed injection wells shall be accomplished through cement-lined tubing installed in a packer set approximately within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus in each well shall be filled with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.
- (4) The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 0.2 psi per foot of depth to the top injection perforation, or in the case of open hole completions, the casing shoe.
- (5) The applicant shall submit information, as it becomes known, as to the exact location of the injection interval in each of the proposed injection wells to the Santa Fe Office of the Division in order that maximum surface injection pressures may be assigned to such wells.
- (6) The Division Director shall have the authority to administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

- (7) Prior to commencing injection operations into the proposed injection wells, the casing in each well shall be pressure-tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.
- (8) Prior to initiating injection operations into the sixty (60) proposed injection wells or in any other injection well located within one-half mile of any of the producing wells shown on Exhibit "B", the applicant shall be required to complete or re-cement or undertake such other actions as are necessary to assure that said wells are completed in a manner which will assure that these wellbores will not serve as a conduit for migration of injected fluid and to the satisfaction of the supervisor of the Hobbs District Office of the Division.
- (9) Prior to initiating injection operations into any injection well located within one-half mile of the wells shown on Exhibit "C", the applicant shall demonstrate to the satisfaction of the supervisor of the Hobbs District Office of the Division that no wellbore will serve as a conduit for the migration of injection fluid.
- (10) The operator shall give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment, of the mechanical integrity pressure tests, and of the conductance of any remedial cement or plugging operations in order that the same may be witnessed.
- (11) The applicant shall immediately notify the supervisor of the Hobbs District Office of the Division of the failure of the tubing, casing or packer in any of the injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area, and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Wells 21, 43, 69, 97, 109 and 110, the applicant shall submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.
- (13) The subject waterflood project is hereby designated the Vacuum Glorieta West Unit Waterflood Project, and the applicant shall conduct injection operations in accordance with Division Rule Nos. 701 through 708 and shall submit monthly progress reports in accordance with Division Rule Nos. 706 and 1115.

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Order	No	. R-		
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(14) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LeMAY Director

SEAL

### ATTACHMENT III TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### PROPOSED CONVERTED PRODUCER TO INJECTION WELL

NEW WELL

DESIGNATION LEASE NAME

NO API NUMBER UNIT SEC TWN RANGE OPERATOR STATUS FOOTAGE LOCATION

VGWU 1 BRIDGES STATE 113 3002521830 E 24 17S 34E MOBIL GLRT PROD 1980' FNL & 830' FWL

### ATTACHMENT III TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### PROPOSED DRILLED INJECTION WELLS

NEW WELL DESIGNATION		LEASE NAME	UNIT	SEC	TWN	RANGE	FOOTAGE LOCATION	
VGWU	4	BRIDGES STATE	M	24	175	34E	1360' FSL & 1300' FWL	
VGWU	5	BRIDGES STATE	N	24	17S	34E	1209' FSL & 2582' FWL	
VGWU	9	BRIDGES STATE	С	25	17S	34E	73' FNL & 1411' FWL	
VGWU	10	YUCCA STATE	0	24	175	34E	100' FSL & 2628' FWL	
VGWU	11	BRIDGES STATE	: B	25	17S	34E	246' FNL & 1554' FEL	
VGWU	17	BRIDGES STATE	F	25	178	34E	1328' FNL & 1399' FWL	
vgwu	18	BRIDGES STATE	F	25	17S	34E	1651' FNL & 2543' FWL	
VGWU	19	BRIDGES STATE	G	25	17S	34E	1502' FNL & 1520' FEL	
vgwu	20	NEW MEXICO T STATE NCT-1	Н	25	178	34E	1541' FNL & 181' FEL	
VGWU	21	NEW MEXICO N STATE	Е	30	17S	35E	1330' FNL & 1283' FWL	
VGWU	27	BRIDGES STATE	I	26	175	34E	1171' FSL & 34' FEL	
VGWU	28	MCALLISTER STATE	, L	25	17S	34E	2304' FSL & 1127' FWL	
VGWU	29	MCALLISTER STATE	K	25	178	34E	2522' FSL & 2283' FWL	
vgwu	30	NEW MEXICO Q STATE	J	25	17S	34E	2305' FSL & 1391' FEL	
VGWU	31	SWIGGART	I	25	178	34E	2520' FSL & 128' FEL	
VGWU	38	MCALLISTER STATE	М	25	17S	34E	2387' FSL & 51' FEL	
VGWU	39	MCALLISTER STATE	M	25	178	34E	1194' FSL & 1055' FWL	
VGWU	40	MCALLISTER STATE	K	25	17S	34E	1570' FSL & 2404' FWL	
vgwu	41	NEW MEXICO Q STATE	J	25	17S	34E	1437' FSL & 1646'FEL	
VGWU	42	NEW MEXICO N STATE	M	30	17S	35E	1250' FSL & 8' FWL	
vgwu	43	NEW MEXICO N STATE	L	30	178	35E	1453' FSL & 1247' FWL	
vgwu	50	STATE H-35	A	35	17S	34E	112' FNL & 1214' FEL	
vgwu	51	STATE H-35	A	35	178	34E	24' FNL & 31' FEL	
VGWU	52	MCALLISTER STATE	N	25	17S	34E	65' FSL & 1587' FWL	
VGWU	53	MCALLISTER STATE	N	25	17S	34E	65' FSL & 2350' FWL	
VGWU	54	NEW MEXICO Q STATE	0	25	175	34E	7' FSL & 1693' FEL	
VGWU	55	NEW MEXICO N STATE	М	30	17S	35E	177' FSL & 52' FWL	
VGWU	63	STATE H-35	A	35	175	34E	1370' FNL & 1135' FEL	
VGWU	64	NEW MEXICO O STATE NCT-1	Е	36	178	34E	1484' FNL & 204' FWL	
VGWU	65	NEW MEXICO O STATE NCT-1	F	36	178	34E	1472' FNL & 1492' FWL	
VGWU	66	NEW MEXICO O STATE NCT-1	F.	36	178	34E	1690' FNL & 2577' FWL	
VGWU	67	NEW MEXICO O STATE NCT-1	G	36	175	34E	1435' FNL & 1408' FEL	
VGWU	68	NEW MEXICO O STATE NCT-1	¦ H	36	17S	34E	1491' FNL & 280' FEL	
VGWU	69	SANTA FE BATTERY 2	E	31	178	35E	1502' FNL & 1203' FWL	
VGWU	77	STATE H-35	н	35	178	34E	2569' FSL & 1326' FEL	
VGWU	78	NEW MEXICO O STATE NCT-1	E	36	175	34E	2491' FNL & 127' FWL	
VGWU	79	STATE VB	К	36	17S	34E	2461' FSL & 1351' FWL	
VGWU	80	NEW MEXICO O STATE NCT-1	G	36	178	34E	2552' FNL & 2504' FEL	
VGWU	81	NEW MEXICO O STATE NCT-1	J	36	178	34E	2466' FSL & 1505' FEL	
VGWU	82	NEW MEXICO O STATE NCT-1	I	36	175	34E	2576' FSL & 82' FEL	
VGWU	91	M.E. HALE	1	35	178	34E	1459' FSL & 1148' FEL	
VGWU	92	STATE I	L	36	178	34E	1451' FSL & 149' FWL	
VGWU	93	STATE VB	κ	36	178	35E	1723' FSL & 1575' FWL	
VGWU	94	NEW MEXICO O STATE NCT-1	1	36	178	34E	1525' FSL & 2591' FEL	
VGWU	95	NEW MEXICO O STATE NCT-1	J	36	178	34E	1519' FSL & 1548' FEL	
VGWU	96	NEW MEXICO O STATE NCT-1	l I	36	17S	34E	142' FSL & 214' FEL	

### ATTACHMENT III TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### PROPOSED DRILLED INJECTION WELLS

NEW WELL								
<b>DESIGNATION</b>		LEASE NAME	<u>UNIT</u>	SEC	TWN	RANGE	FOOTAGE LOCATION	
				•	•	1		
VGWU	97	SANTA FE BATTERY 2	L	31	175	35E	1419' FSL & 1225' FWL	
VGWU	104	NEW MEXICO O STATE NCT-1	M	36	178	34E	361' FSL & 300' FWL	
VGWU	105	NEW MEXICO O STATE NCT-1	N	36	178	34E	403' FSL & 1340' FWL	
VGWU	106	NEW MEXICO O STATE NCT-1	0	36	175	34E	310' FSL & 2542' FEL	
VGWU	107	NEW MEXICO O STATE NCT-1	0	36	178	34E	184' FSL & 1382' FEL	
VGWU	108	NEW MEXICO O STATE NCT-1	P	36	178	34E	213' FSL & 301' FEL	
VGWU	109	WARN STATE AC 2	C	6	185	35E	96' FNL & 2498' FWL	
VGWU	110	NEW MEXICO R STATE NCT-I	Α	6	185	35E	74' FNL & 56' FEL	
VGWU	120	NEW MEXICO L STATE	В	1	185	34E	1102' FNL & 1575' FEL	
VGWU	121	NEW MEXICO L STATE	A	1	185	34E	1014' FNL & 140' FEL	
VGWU	122	WARN STATE AC 2	D	6	185	35E	1000' FNL & 1136' FWL	
VGWU	123	WARN STATE AC 2	С	6	185	35E	1080' FNL & 2344' FWL	
VGWU	124	NEW MEXICO R STATE NCT-1	В	6	185	35E	1020' FNL & 1419' FEL	

## ATTACHMENT VI TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

#### UNIT AREA PRODUCERS

(VGWU DENOTES VACUUM GLORIETA WEST UNIT)

NEW WE	ELL									
DESIGNA	TION	LEASE NAME	WELL NO	API NUMBER	UNIT	SEC	TWN	RANGE	OPERATOR	WELL STATUS
		t		1				•	,	
vgwu	1.	BRIDGES STATE	113	3002521830	E	24	175	34E	MOBIL	GLRT PROD
VGWU	3	BRIDGES STATE	114	3002521866	K	24	175	34E	MOBIL	GLRT PROD
vgwu	6	BRIDGES STATE	58	3002502094	М	24	17S	34E	MOBIL	GLRT PROD
VGWU	8	YUCCA STATE	2	3002520673	0	24	175	34E	TEXACO	GLRT PROD
vgwu	12	BRIDGES STATE	36	3002502106	D	25	175	34E	MOBIL	TA GBSA-BLBR
VGWU	13	BRIDGES STATE	106	3002521364	C	25	175	34E	MOBIL	GLRT PROD
VGWU	1.4	BRIDGES STATE	110	3002521649	В	25	175	34E	MOBIL	GLRT PROD
VGWU	22	BRIDGES STATE	103	3002520873	Е	25	178	34E	MOBIL	GLRT PROD
VGWU	23	BRIDGES STATE	111	3002521675	F	25	175	34E	MOBIL	GLRT PROD
VGWU	24	BRIDGES STATE	102	3002521041	G	25	175	34E	MOBIL	GLRT PROD
VGWU	2.5	NEW MEXICO T STATE NCT I	2	3002520951	н	25	178	34E	TEXACO	GLRT PROD
VGWU	26	NEW MEXICO N STATE	7	3002520943	E	30	175	35E	TEXACO	GLRT PROD
VGWU	32	BRIDGES STATE	99	3002520148	1	26	175	34E	MOBIL	SI BLBR-GLRT
VGWŪ	33	MCCALLISTER STATE	6	3002520235	L	25	175	34E	MARATHON	BLBR-GLRT PROD
vgwu	34	MCCALLISTER STATE	9	3002520143	к	25	178	34E	MARATHON	BLBR-GLRT PROD
vgwu	35	NEW MEXICO Q STATE	9	3002527236	1	25	17S	34E	TEXACO	GLRT PROD
VGWU	36	SWIGART	2	3002520212	I	25	17S	34E	SHELL	SI GLRT
VGWU	37	NEW MEXICO N STATE	6	3002520942	L	30	175	35E	TEXACO	SI GLRT
VGWU	44	BRIDGES STATE	97	3002520068	P	26	17S	34E	MOBIL	TA BLBR-GLRT
VGWU	45	MCCALLISTER STATE	8	3002520050	М	25	17S	34E	MARATHON	GLRT PROD
VGWU	46	MCCALLISTER STATE	10	3002520249	N	25	175	34E	MARATHON	GLRT PROD
VGWU	47	NEW MEXICO Q STATE	10	3002527913	0	25	17S	34E	TEXACO	GLRT PROD
VGWU	48	NEW MEXICO Q STATE	11	3002530970	P	25	175	35E	TEXACO	GLRT PROD
VGWU	49	NEW MEXICO N STATE	10	3002530967	М	30	175	35E	TEXACO	SI GLRT
VGWU	56	STATE H 35	7	3002520329	В	35	175	34E	CONOCO	GLRT PROD
VGWU	57	STATE H 35	8	3002520510	A	35	175	34E	CONOCO	GLRT PROD
VGWU	58	STATE BA	11	3002530715	D	36	175	34E	TEXACO	GLRT PROD
VGWU	59	STATE BA	13	3002530971	c	36	175	34E	TEXACO	GLRT PROD
VGWU	60	STATE BA	12	3002530716	В	36	175	34E	TEXACO	GLRT PROD
VGWU	61	STATE BA	10	3002521432	A	36	175	34E	TEXACO	SI GLRT
VGWU	62	STATE H	2	3002520863	D	31	178	35E	MOBIL	SI GLRT
VGWU	71	STATE H 35	12	3002520665	н	35	17S	34E	CONOCO	GLRT PROD
VGWU	72	NEW MEXICO O STATE NCT I	30	3002530779	E	36	175	34E	TEXACO	GLRT PROD
VGWU	73	NEW MEXICO O STATE NCT 1	31	3002530714	F	36	175	34E	TEXACO	GLRT PROD
VGWU	74	NEW MEXICO O STATE NCT I	32	3002530968	G	36	175	34E	TEXACO	GLRT PROD

## ATTACHMENT VI TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

#### UNIT AREA PRODUCERS

(VGWU DENOTES VACUUM GLORIETA WEST UNIT)

NEW WI	ELI.									
DESIGNATION		LEASE NAME	WELL NO	API NUMBER	UNIT	SEC	TWN	RANGE	OPERATOR	WELL STATUS
		1		t		1			1	1
VGWU	75	NEW MEXICO O STATE NCT I	33	3002530969	Н	36	175	34E	TEXACO	GLRT PROD
VGWU	76	SANTA FE BATTERY 2	88	3002520784	E	31	178	35E	PHILLIPS	GLRT PROD
VGWU	83	M E HALE	9	3002520781	J	35	175	34E	PHILLIPS	GLRT PROD
VGWU	84	M E HALE	7	3002520778	I	35	17S	34E	PHILLIPS	GLRT PROD
VGWU	85	STATE I	2	3002520236	L	36	175	34E	MOBIL	GLRT PROD
VGWU	86	STATE VB	2	3002520179	К	36	175	34E	AMERADA	GLRT PROD
VGWU	87	NEW MEXICO O STATE NCT 1	25	3002521637	J	36	175	34E	TEXACO	GLRT PROD
VGWU	88	NEW MEXICO O STATE NCT 1	28	3002530206	J	36	17S	34E	TEXACO	GLRT PROD
VGWU	89	NEW MEXICO O STATE NCT 1	15	3002520505	I	36	17S	34E	TEXACO	SI GLRT
VGWU	90	SANTA FE BATTERY 2	87	3002520270	L	31	17S	35E	PHILLIPS	GLRT PROD
VGWU	99	NEW MEXICO O STATE NCT 1	26	3002529919	М	36	17S	34E	TEXACO	GLRT PROD
VGWU	100	NEW MEXICO O STATE NCT 1	29	3002530476	N	36	17S	34E	TEXACO	GLRT PROD
VGWU	101	NEW MEXICO O STATE NCT 1	23	3002520237	0	36	178	34E	TEXACO	GLRT PROD
VGWU	102	NEW MEXICO O STATE NCT 1	27	3002530126	P	36	175	34E	TEXACO	GLRT PROD
VGWU	103	STATE D	2	3002520339	M	31	17S	35E	SHELL	GLRT PROD
VGWU	111	NEW MEXICO U STATE	3	3002521111	A	2	185	34E	TEXACO	SI GLRT
VGWU	112	NEW MEXICO M STATE	5	3002520515	D	1	185	34E	TEXACO	SI WFMP
VGWU	113	NEW MEXICO M STATE	8	3002521107	C	1	185	34E	TEXACO	GLRT PROD
VGWU	114	NEW MEXICO L STATE	10	3002531132	В	1	185	34E	TEXACO	GLRT PROD
VGWU	115	NEW MEXICO L STATE	11	3002531131	A	1	185	34E	TEXACO	GLRT PROD
VGWU	116	WARN STATE AC 2	12	3002520753	D	6	185	35E	MARATHON	GLRT PROD
VGWU	117	WARN STATE AC 2	13	3002520754	С	6	185	35E	MARATHON	GLRT PROD
VGWU	118	NEW MEXICO R STATE NCT 1	12	3002531129	В	6	185	35E	TEXACO	GLRT PROD
VGWU	119	NEW MEXICO R STATE NCT 1	8	3002521108	A	6	185	35E	TEXACO	SI GLRT
VGWU	125	NEW MEXICO L STATE	9	3002520939	Н	1	185	34E	TEXACO	SI GLRT
VGWU	126	WARN STATE AC 2	14	3002521031	E	6	188	35E	MARATHON	SI GLRT
VGWU	127	WARN STATE AC 2	15	3002521292	F	6	185	35E	MARATHON	SI GLRT
vgwu	128	NEW MEXICO R STATE NCT 1	9	3002521054	G	6	185	35E	TEXACO	SI GLRT
VGWU	129	NEW MEXICO R STATE NCT 1	11	3002521425	н	6	185	35E	TEXACO	SI GLRT

### ATTACHMENT VI TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

#### PLUGGED AND ABANDONED WELLS INSIDE UNIT AREA

LEASE NAME	WELL NO	API NUMBER	UNIT	SEC	<u>TWN</u>	RANGE	<u>OPERATOR</u>	WELL STATUS
STATE H 35	10	3002520664	G	35	175	34E	CONOCO	P & A
STATE H 35	13	3002521898	В	35	178	34E	CONOCO	P & A
BRIDGES STATE	11	3002502100	F	25	178	34E	MOBIL	P & A
BRIDGES STATE	115	3002522850	A	25	175	35E	MOBIL	P & A
NORTH VACUUM ABO UNIT	232	3002527519	A	25	175	34E	MOBIL	P & A
NEW MEXICO L STATE	8	3002520938	G	1	185	34E	TEXACO	P & A
NEW MEXICO M STATE	6	3002520940	С	1	185	34E	TEXACO	P & A
NEW MEXICO N STATE	5	3002520941	М	30	178	35E	TEXACO	P & A
NEW MEXICO N STATE	9	3002523854	D	30	178	35 <b>E</b>	TEXACO	P & A
NEW MEXICO O STATE NCT I	12	3002520418	1	36	175	34E	TEXACO	P & A
NEW MEXICO O STATE NCT I	19	3002520203	F	36	17S	34E	TEXACO	P & A
NEW MEXICO R STATE NCT 1	10	3002521109	В	6	185	35E	TEXACO	P & A

## ATTACHMENT VI TO FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT

#### WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

#### PLUGGED AND ABANDONED WELLS OUTSIDE UNIT AREA

LEASE NAME	WELL NO	API NUMBER	UNIT	SEC	<u>TWN</u>	RANGE	<b>OPERATOR</b>	WELL STATUS
		ı	1	,		1	1	1
STATE H 35	11	3002520497	С	35	17S	34E	CONOCO	P & A
* BUCKEYE BRINE STATION	. 1		М	19	175	35E	HARDIN-HOUSTON	P & A
NEW MEXICO AB STATE	. 5	3002520163	J	6	185	35E	TEXACO	P & A

<sup>•</sup> FORMERLY EXXON'S NEW MEXICO J STATE NO. 3 (API # 3002520163).