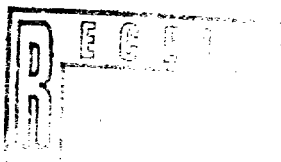


CAMPBELL, CARR, BERGE  
& SHERIDAN, P.A.  
LAWYERS

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 1 - 110 NORTH GUADALUPE  
POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208  
TELEPHONE (505) 988-4421  
TELECOPIER (505) 983-6043

December 23, 1992

**HAND-DELIVERED**

*Case 3344*

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

Re: Oil Conservation Division Order No. R-3007-A amending the definition of  
"Unitized Interval" in the West Vacuum Unit Agreement, Lea County, New  
Mexico

Dear Mr. LeMay:

Order No. R-3007-A approved the application of Texaco, Inc. for amendment of the definition of "Unitized Formation" in the West Vacuum Unit Agreement. A copy of this Order is enclosed for your reference.

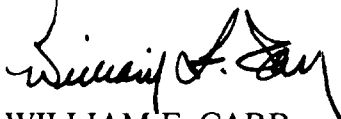
As you will note, Order paragraph 3 provides that the expanded definition of Unitized Interval shall become effective upon approval of this expansion by the Commissioner of Public Lands. This approval was received by Texaco on October 2, 1992. A copy of the Commissioner's approval letter is also enclosed.

Texaco needs a document which can be filed in the records of Lea County, New Mexico, to make other owners aware of this change in the unitized interval. Accordingly, we have prepared and enclose a Certificate of Effectiveness which contains the amended language in this agreement and defines the current unit boundaries. We would appreciate your executing this Certificate and returning it to me for filing.

William J. LeMay, Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
December 23, 1992  
Page 2

If you have any questions concerning this matter, please advise.

Very truly yours,

A handwritten signature in black ink, appearing to read "William F. Carr", written in a cursive style.

WILLIAM F. CARR

WFC:mlh  
Enclosures

cc w/enc.: ✓ Robert G. Stovall, Esq.  
Ronald W. Lanning



JIM BACA  
COMMISSIONER

State of New Mexico  
OFFICE OF THE  
Commissioner of Public Lands  
Santa Fe

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

October 2, 1992

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

Attn: Mr. William F. Carr

Re: Amendment of the Definition of "Unitized Formation"  
West Vacuum Unit Agreement  
Lea County, New Mexico

Dear Mr. Carr:

This office is in receipt of your application to amend the West Vacuum Unit Agreement to provide for expansion of the "Unitized Interval" as originally described in Section 2, Subsection (j) of said agreement.

We have also received additional documentation supporting your application, and a copy of the New Mexico Oil Conservation's Case No. 3344 (Reopened), Order No. R-3007-1 approving said amendment dated May, 6, 1992.


It is our understanding that 99.8% of the working interest owners in the West Vacuum Unit have approved the applicant's proposed expansion of the "Unitized Formation". In addition, it is also our understanding that the unit in all other respects will remain unchanged.

Please be advised that the Commissioner of Public Lands concurs with the New Mexico Oil Conservation Division and has this date approved the amendment to the definition of "Unitized Formation" in the West Vacuum Unit Agreement. Please submit copies of the "Amendment to the Unit Agreement for the West Vacuum Unit Area" executed by the various working interest owners in said unit.

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

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY:   
FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744  
JB/FOP/pm  
cc: Reader File  
OCD-Santa Fe

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

**RECEIVED**  
**MAY - 8 1992**  
**CAMPBELL, CARR, et al.**

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

CASE NO. 3344 (Reopened)  
Order No. R-3007-A

APPLICATION OF TEXACO INC. FOR  
AMENDMENT OF DIVISION ORDER NO.  
R-3007, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on April 2 and 30, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 6th day of May, 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) By Order No. R-3007 issued in Case No. 3344 on December 3, 1965, the Division, upon application of Texaco Inc., approved the West Vacuum Unit Agreement comprising some 2,000 acres, more or less, of State lands in portions of Townships 17 and 18 South, Range 34 East, NMPM, Lea County, New Mexico, for the purpose of initiating and conducting secondary recovery operations.

(3) The applicant, Texaco Inc., seeks to amend the West Vacuum Unit Agreement and thereby Order No. R-3007, by revising the definition of the "Unitized Formation" as originally incorporated in said agreement.

(4) According to evidence presented, the original "Unitized Formation" comprised portions of the Grayburg-San Andres formation which occur between the log depths, measured from the kelly bushing, of 4,213 feet and 4,750 feet in the Texaco Inc. State "V" Well No. 8 located 660 feet from the North and West lines (Unit D) of Section 34, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as shown on the Schlumberger Gamma Ray-Neutron Log run on said well.

(5) The applicant now proposes that the "Unitized Formation" comprise portions of the Queen, Grayburg and San Andres formations which occur between the log depths, measured from the derrick floor, of 4,004 feet and 4,774 feet in the Texaco Inc. West Vacuum Unit Well No. 13 located 330 feet from the North line and 660 feet from the East line (Unit A) of Section 34, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as shown on the Gamma Ray-Neutron Log run on said well.

(6) According to applicant's evidence and testimony, the "Unitized Formation" was originally intended to include the entire interval as described in Finding No. (5) above, however, due to the difficulty in correlating the San Andres formation between logs and due to the thickening of the reservoir in the unit area, such intent was not originally implemented.

(7) According to further evidence, the revenue from production from the unit area has historically been distributed among the various interest owners as if the "Unitized Formation" comprised the entire interval as now proposed by the applicant.

(8) As of the date of the hearing, approximately 99.8% of the working interest owners in the West Vacuum Unit have approved the applicant's proposed expansion of the "Unitized Formation".

(9) No interest owner appeared at the hearing in opposition to the application.

(10) Approval of the proposed amendment will allow the applicant the opportunity to recover hydrocarbons which may otherwise not be recovered, thereby preventing waste, and will not violate correlative rights.

(11) Pursuant to Part (4) of the West Vacuum Unit Agreement, the applicant is in the process of obtaining approval for the proposed amendment from the Commissioner of Public Lands for the State of New Mexico.

(12) Approval of the proposed expansion should become effective as per the terms of Part (4) of the West Vacuum Unit Agreement and upon approval of such expansion from the Commissioner of Public Lands for the State of New Mexico.

(13) The applicant should be required to file with the Division copies of the "Amendment to the Unit Agreement for the West Vacuum Unit Area" executed by the various working interest owners in said unit.

**IT IS THEREFORE ORDERED THAT:**

(1) The application of Texaco Inc. for an amendment to the West Vacuum Unit Agreement, originally approved by Division Order No. R-3007, to provide for expansion of the "Unitized Interval" is hereby granted.

(2) The "Unitized Interval" shall hereinafter comprise portions of the Queen, Grayburg and San Andres formations which occur between the log depths, measured from the derrick floor, of 4,004 feet and 4,774 feet in the Texaco Inc. West Vacuum Unit Well No. 13 located 330 feet from the North line and 660 feet from the East line (Unit A) of Section 34, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as shown on the Gamma Ray-Neutron Log run on said well.

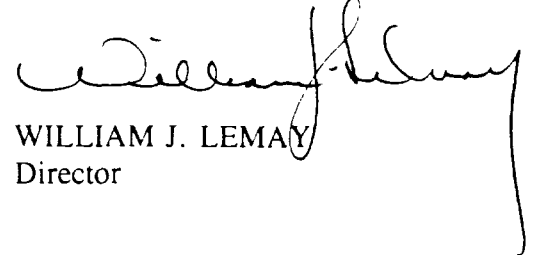
(3) The expansion of the "Unitized Interval" shall become effective as per the terms of Part (4) of the West Vacuum Unit Agreement and upon approval of such expansion from the Commissioner of Public Lands for the State of New Mexico.

(4) The applicant shall file with the Santa Fe Office of the Division copies of the "Amendment to the Unit Agreement for the West Vacuum Unit Area" executed by the various working interest owners in said unit.

(5) Jurisdiction is hereby 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

S E A L

WEST VACUUM 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. The Oil Conservation Division entered Order No. R-3007-A dated May 6, 1992, which granted the application of Texaco, Inc., to amend the West Vacuum Unit Agreement, which previously had been approved by Order No. R-3007, to revise the definition of "Unitized Formation."

2. Order No. R3007-A provides that the expanded definition of "Unitized Interval" in this Unit Agreement shall become effective pursuant to the terms of Part (4) of the West Vacuum Unit Agreement ... "upon approval of such expansion from the Commissioner of Public Lands for the State of New Mexico."

3. The Commissioner of Public Lands concurred in Oil Conservation Division Order No. R-3007-A on October 2, 1992.

4. Effective October 2, 1992, all requirements for approval of Division Order No. R-3007-A had been met and on that date this order became effective and the definition of "Unitized Formation" therein was amended to read:

"Unitized Formation" means that subsurface portion of the Unit Area including portions of the Grayburg-San Andres formations which occur between the logged depths, measured from the derrick floor, of 4004 feet and 4774 feet in the Texaco Exploration and Production Inc. West Vacuum Unit Well No. 13 as shown on the Halliburton Gamma Ray-Dual Spaced Neutron log of said well which is located 330 feet from the North line and 660 feet from the East line of Section 34, Township 17 South, Range 34 East, Lea County, New Mexico."

5. The horizontal limits of this Unit Area is comprised of the following described lands in Lea County, New Mexico.

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

Section 28: S/2 NW/4, N/2 SW/4, SW/4 SW/4  
Sections 33 and 34: All

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

Section 3: NE/4, N/2 NW/4, SE/4 NW/4, NE/4 SE/4  
Section 4: N/2 N/2  
Section 5: NE/4 NE/4

covering 2000 acres, more or less, of state lands.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED THIS \_\_\_\_\_  
DAY 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 \_\_\_\_\_ 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:

\_\_\_\_\_





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

May 7, 1992

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

RE: CASE NO. 3344  
ORDER NO. R-3007-A

Dear Sir:

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

Sincerely,

A handwritten signature in cursive script that reads "Florene Davidson".

Florene Davidson  
OC Staff Specialist

FD/sl

cc: BLM Carlsbad Office

BEFORE THE  
OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

IN THE MATTER OF THE APPLICATION  
OF TEXACO EXPLORATION & PRODUCTION  
INC., FOR AMENDMENT OF DIVISION  
ORDER NO. R-3007,  
LEA COUNTY, NEW MEXICO.

CASE NO. 3344

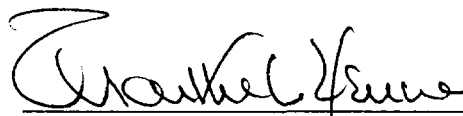
AFFIDAVIT

STATE OF NEW MEXICO        )  
  )ss.  
COUNTY OF SANTA FE        )

WILLIAM F. CARR, attorney in fact and authorized representative of Texaco Exploration & Production Inc., the Applicant herein, being first duly sworn, upon oath, states that the notice provisions of Rule 1207 of the New Mexico Oil Conservation Division have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested persons entitled to receive notice as shown by Exhibit "A" attached hereto, and that pursuant to Rule 1207, notice has been given at the correct addresses provided by such rule.

  
WILLIAM F. CARR

SUBSCRIBED AND SWORN to before me this 29th day of April, 1992.

  
Notary Public

My Commission Expires:

August 19, 1995

**EXHIBIT A**

Anne Todd Barfield  
10639 Sandpiper  
Dallas, Texas 79702

Clifford Cone  
Post Office Drawer 1629  
Lovington, NM 88260

Joel H. Davis  
1015 Ten Mile Road  
Everson, Washington 98247

Kenneth G. Cone  
Post Office Box 11310  
Midland, Texas 79702

John A. Davis  
2270 Santiago Rd.  
Santa Barbara, CA 93103

Janet Anne Lupia  
247 Southwest Parkway, #312  
Lewisville, TX 75067

Georgia Lorraine Temple  
Post Office Box 11392  
Midland, Texas 79702

New Mexico State Land Office  
State Land Office Building  
Post Office Box 1148  
Santa Fe, New Mexico 87504  
Attn: Floyd Prando

Tommy T. Todd  
7912 Purdue  
Dallas, Texas 75225

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 1 - 110 NORTH GUADALUPE  
POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208  
TELEPHONE (505) 988-4421  
TELECOPIER: (505) 983-6043

April 1, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Tommy T. Todd  
7912 Purdue  
Dallas, Texas 75225

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

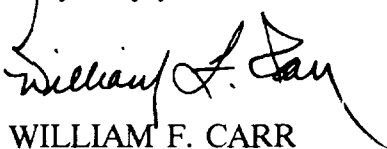
Dear Mr. Todd:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on May 14, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing.

Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.

WFC:mlh

Enclosure

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent the item from being returned to you. The return receipt will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to: Tommy T. Todd  
7912 Purdue  
Dallas, TX 75225

4. Article Number P 307 895 268

Type of Service: ☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail

Always obtain signature of addressee or agent. ☒ DATE DELIVERED.

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature - Addressee X

6. Signature - Agent X *Tom Todd*

7. Date of Delivery *4/1/92*

PS Form 3811, Feb. 1986

DOMESTIC RETURN RECEIPT

P 307 895 268

Tommy T. Todd  
7912 Purdue  
DALLAS, TX 75225  
.29  
1.00

..00  
2.29  
4/1/92

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 1110 NORTH GUADALUPE  
POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208  
TELEPHONE: (505) 988-4421  
TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Anne Todd Barfield  
10639 Sandpiper  
Dallas, Texas 75230

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

Dear Ms Barfield:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing.

Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.  
WFC:mlh  
Enclosure

BEFORE EXAMINER GATANACH	
OIL CONSERVATION DIVISION	
TEXACO	EXHIBIT NO. _____
CASE NO.	3344

1973

Anne Todd Barfield  
10639 Sandpiper  
Dallas, Texas 79702

PS Form 3800, June 1985

MAR 11 1992

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 1 - 110 NORTH GUADALUPE

POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-442

TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**

**RETURN RECEIPT REQUESTED**

Clifford Cone  
Post Office Drawer 1629  
Lovington, NM 88260

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

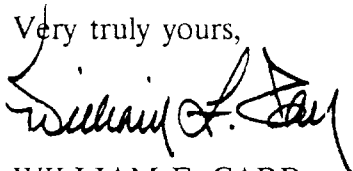
Dear Mr. Cone:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing.

Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.

WFC:mlh

Enclosure



<p><b>SENDER:</b> Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.</p> <p>Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent the card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.</p> <p>1. <input checked="" type="checkbox"/> Show to whom delivered, date, and addressee's address. 2. <input type="checkbox"/> Restricted Delivery (Extra charge)</p>	
<p>3. Article Addressed to:</p> <p>Clifford Cone Post Office Drawer 1629 Lovington, NM 88260</p>	<p>4. Article Number</p> <p>P 106 677 368</p>
<p>5. Signature - Address</p> <p><i>Clifford Cone</i></p>	<p>Type of Service:</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured</p> <p><input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD</p> <p><input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and DATE DELIVERED.</p>
<p>6. Signature - Agent</p> <p><i>Clifford Cone</i></p>	<p>8. Addressee's Address (ONLY if requested with fee paid)</p>
<p>7. Date of Delivery</p> <p>X</p>	<p>Postmark or Date</p> <p>MAR 11 1992</p>

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P-106 677 368

Clifford Cone  
Post Office Drawer 1629  
Lovington, NM 88260

<p>Postage Fee</p>	
<p>Insurance Fee</p>	
<p>Registered Mail Fee</p>	
<p>Return Receipt Fee</p>	
<p>Return Receipt Fee with Signature</p>	
<p>Return Receipt Fee with Signature and Date of Delivery</p>	
<p>Return Receipt Fee with Signature and Date of Delivery and Restricted Delivery</p>	
<p>Postmark or Date</p>	

CAMPBELL, CARR, BERGE

& SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL  
WILLIAM F. CARR  
BRADFORD C. BERGE  
MARK F. SHERIDAN  
WILLIAM F. SLATTERY

PATRICIA A. MATTHEWS  
MICHAEL H. FELDEWERT

JACK M. CAMPBELL  
OF COUNSEL

JEFFERSON PLACE  
SUITE 1 - 110 NORTH GUADALUPE  
POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208  
TELEPHONE (505) 988-4421  
TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Joel H. Davis  
1015 Ten Mile Road  
Everson, Washington 98247

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

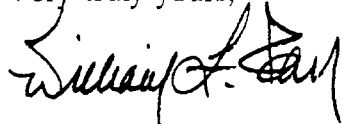
Dear Mr. Davis:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing.

Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.

WFC:mlh

Enclosure

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent the card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check boxes for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. **(Extra charge)**

2. ☐ Restricted Delivery **(Extra charge)**

(Extra charge)

Joel H. Davis  
1015 Ten Mile Road  
Everton, Washington 98247

#### 4. Article Number

P 166 677 369

Type of Service:

☐ Registered ☐ Insured

☒ Certified ☐ COD ☐ Return

☐ Express Mail, ☐ for Merchandise

**or agent and DATE DELIVERED.**

**8. Addressee's Address (ONLY if requested and fee paid)**

**5. Signature — Address**

**6. Signature – Agent**

**7. Date of Delivery**

3-14-97

**PS Form 3811, Mar. 1988** ★ **U.S.G.P.O. 1988-212-865**

# DOMESTIC RETURN RECEIPT

P-106 677 369

Joel H. Davis  
1015 Ten Mile Road  
Everson, Washington 98247

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

$$\gamma_k^{(1)}(x, y) = \frac{1}{2} \gamma_k^{(0)}(x, y) \quad \forall x, y \in \mathbb{R}^d$$
$$f(t) = \frac{1}{2} (1 + \cos \pi t) \quad \text{for } 0 \leq t \leq 1, \quad f(t) = 0 \quad \text{for } t > 1.$$
$$f_{\text{eff}} = \frac{\sum_{j=1}^n f_j}{n}$$

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

1967

For  $\alpha \in \mathbb{R}$ , let  $\mathcal{H}_\alpha$  be the Hilbert space of functions  $f$  on  $\mathbb{R}^d$  such that

MAR 11 1992

PS Form 3800, June 1985

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 110 NORTH GUADALUPE

POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE (505) 988-4421

TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Kenneth G. Cone  
Post Office Box 11310  
Midland, Texas 79702

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

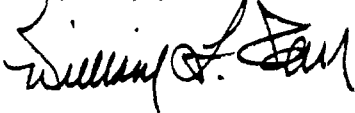
Dear Mr. Cone:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing.

Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.  
WFC:mlh  
Enclosure

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent the card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for rates and check boxes for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery  
(Extra charge)

**3. Article Addressed to:**

Kenneth G. Cone  
Post Office Box 1310  
Midland, Texas 79702

4. Article Number  
D151157

1-106

Type of Service:  
☐ Registered  
☐ Insured

☒ Certified☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

**8. Addressee's Address (ONLY if requested and fee paid)**

### **B. Signature – Address**

✕

0. Signature - Agent

✕

7. Date of Delivery

1000

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-805 DOMESTIC RETURN RECEIPT

P-106 677 370

Kenneth G. Cone  
Post Office Box 11310  
Midland, Texas 79702

MAR 11 1992

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 110 NORTH GUADALUPE

POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208

TELEPHONE (505) 988-4421

TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

John A. Davis  
2270 Santiago Rd.  
Santa Barbara, CA 93103

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

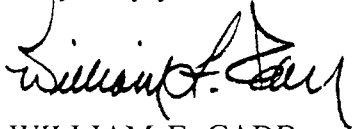
Dear Mr. Davis:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing.

Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.  
WFC:mlh  
Enclosure

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

POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208

APR 3 1992

Return to

P-106 677 371

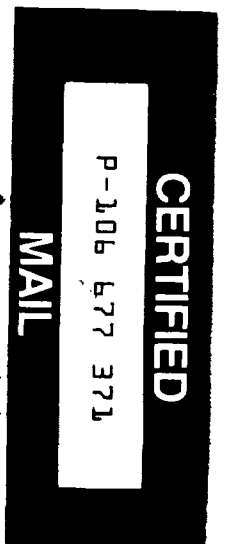
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

John A. Davis  
2270 Santiago Rd.  
Santa Barbara, CA 93103

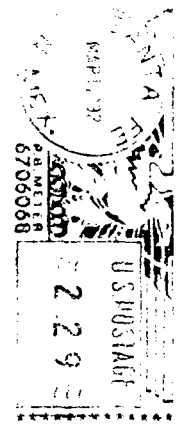
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date  MAR 11 1992	

PS Form 3800, June 1985



John A. Davis  
2270 Santiago Rd.  
Santa Barbara, CA 93103

MAR 18 1992  
3-28



Handwritten barcode-like lines

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 1 - 110 NORTH GUADALUPE  
POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208  
TELEPHONE (505) 988-4421  
TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Janet Anne Lupia  
247 Southwest Parkway, #312  
Lewisville, TX 75067

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

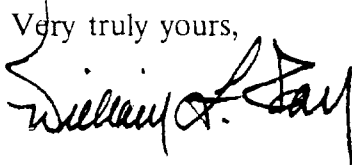
Dear Ms Lupia:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

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Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.

WFC:mlh

Enclosure



● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
 Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent the item from being returned to you. The return receipt fee will provide you the name of the person delivering the item and the date of delivery. For additional fees the following services are available. Consult postmaster for rates and check boxes for additional services requested.  
 1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:

Janet Anne Lupia  
 247 Southwest Parkway, #312  
 Lewisville, TX 75067

4. Article Number

P 106 677 372

Type of Service:  
☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature - Addressee  
 X  
 6. Signature - Agent  
 X  
 7. Date of Delivery



PS Form 3811, Mar. 1988 \* U.S.G.P.S. 1988-212-865 DOMESTIC RETURN RECEIPT

P-106 677 372

Janet Anne Lupia  
 247 Southwest Parkway, #312  
 Lewisville, TX 75067

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date and Address of Delivery	
POSTAGE and Fees	
Postmark or Date	MAR 11 1992

PS Form 3800, June 1985

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 1 - 110 NORTH GUADALUPE

POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-442

TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Georgia Lorraine Temple  
Post Office Box 11392  
Midland, Texas 79702

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

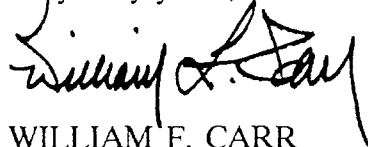
Dear Ms Temple:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

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Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.

WFC:mlh

Enclosure

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 Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt for this card will provide you the name of the person delivering it and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check boxes for additional service(s) requested.  
 1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:

Georgia Lorraine Temple  
 Post Office Box 11392  
 Midland, Texas 79702

4. Article Number

P 106 677 373

Type of Service:

☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature - Addressee

*Georgia Lorraine Temple*

6. Signature - Agent

7. Date of Delivery

3-17-92

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT

P-106 677 373

U.S. AIR MAIL

Georgia Lorraine Temple  
 Post Office Box 11392  
 Midland, Texas 79702

Postage Fee	
Special Delivery Fee	
Registered Delivery Fee	
Return Receipt Fee	
Insurance Fee	
Express Mail Fee	
Postmark or Date	MAR 11 1992

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 1110 NORTH GUADALUPE

POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE (505) 988-4421

TELECOPIER (505) 983-6043

March 11, 1992

**CERTIFIED MAIL**

**RETURN RECEIPT REQUESTED**

New Mexico State Land Office  
State Land Office Building  
Post Office Box 1148  
Santa Fe, New Mexico 87504  
Attn: Floyd Prando

Re: Application of Texaco Inc. for Amendment of Division Order No. R-3007,  
Lea County, New Mexico

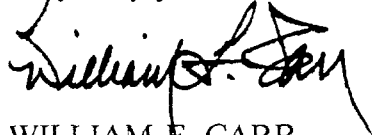
Gentlemen:

This letter is to advise you that Texaco Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking Amendment of Division Order No. R-3007 which approved the West Vacuum Unit, Lea County, New Mexico. The amendment corrects the definition of "unitized formation" to include the entire producing interval in the unit area.

This application has been set for hearing before a Division Examiner on April 2, 1992. You are not required to attend this hearing, but as an interest owner in the unit area, you may appear and present testimony. Failure to appear at that time or otherwise become a party of record will preclude you from challenging this application at a later date.

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Very truly yours,



WILLIAM F. CARR  
ATTORNEY FOR TEXACO INC.

WFC:mlh

Enclosure

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Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check boxes for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:  
New Mexico State Land Office  
State Land Office Building  
Post Office Box 1148  
Santa Fe, New Mexico 87504  
Attn: Floyd Prando

4. Article Number  
P 106 677 374

Type of Service:  
☒ Registered  
☒ Certified  
☐ Express Mail  
☐ Insured  
☐ COD  
☐ Return Receipt for Merchandise  
 Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Address  
X Mike D

6. Signature - Agent  
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P-106 677 374

RECEIPT FOR DELIVERED MAIL  
POSTMASTER USE ONLY  
NO POSTAGE REQUIRED  
IF MAILED IN THE U.S.

New Mexico State Land Office  
State Land Office Building  
Post Office Box 1148  
Santa Fe, New Mexico 87504  
Attn: Floyd Prando

Certified Fee	
Registered Delivery Fee	
Restricted Delivery Fee	
Return Receipt (showing to whom and date delivered)	
Return Receipt (showing to whom, date and address of delivery)	
TOTAL Postage and Fees	\$
Postmark or Date MAR 11 1992	



JIM BACA  
COMMISSIONER

State of New Mexico  
OFFICE OF THE  
Commissioner of Public Lands  
Santa Fe

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

April 6, 1992

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

Attn: Mr. William F. Carr

Re: Application of Texaco Inc. for Amendment of Division Order No.  
R-3007, West Vacuum Unit, Lea County, New Mexico

Dear Mr. Carr:

This office is in receipt of your certified letter of March 11, 1992, advising this office that Texaco, Inc. has filed an application with the NMOCD to amend the unitized formation as approved in the West Vacuum Unit Agreement, Lea County, New Mexico.

Since you will be expanding the originally approved unitized area, you must submit for our approval an application to expand the unit pursuant to Section 4 of the agreement. You will also need to amend Section 2 (j) of the West Vacuum Unit Agreement.

Pursuant to Section 4.2 of the West Vacuum Unit Agreement, the effective date of any enlargement of the Unit Area shall be 7:00 a.m. on the first day of the calendar month following compliance with conditions for enlargement as specified by Working Interest Owners, approval by the Commissioner and the Commission, and the filing for record of revised Exhibits "A" and "B" in the records of Lea County, NM.

Enclosed, for your information, is a copy of the West Vacuum Unit Agreement. If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*  
FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744  
JB/FOP/pm  
encls.  
cc: Reader File  
OCD

**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. 3344

IN THE MATTER OF THE APPLICATION  
OF TEXACO EXPLORATION & PRODUCTION,  
INC., FOR AMENDMENT OF DIVISION  
ORDER NO. R-3007,  
LEA COUNTY, NEW MEXICO.

RECEIVED

OIL CONSERVATION DIVISION

**PRE-HEARING STATEMENT**

This Pre-Hearing Statement is submitted by William F. Carr, as required by the Oil Conservation Division.

**APPEARANCES OF PARTIES**

**APPLICANT**

Texaco Exploration & Production, Inc.  
c/o Nanette J. Crawford \_\_\_\_\_  
Post Office Box 2100. \_\_\_\_\_  
Denver, Colorado 80201 \_\_\_\_\_  
(303) 793-4317 \_\_\_\_\_

**ATTORNEY**

William F. Carr \_\_\_\_\_  
Campbell, Carr, Berge & Sheridan, P.A.  
Post Office Box 2208 \_\_\_\_\_  
Santa Fe, New Mexico 87504 \_\_\_\_\_  
(505) 988-4421 \_\_\_\_\_

**OPPOSITION OR OTHER PARTY**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_\_

**ATTORNEY**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_\_

name, address, phone and  
contact person

**STATEMENT OF CASE**

**APPLICANT**

Texaco Exploration & Production, Inc., applicant in the above-styled cause, seeks to amend Division Order No. R-3007, dated December 3, 1965, which authorized its West Vacuum Unit Agreement covering 2000 acres, more or less, of state lands in portions of Townships 17 and 18 South, Range 34 East. Applicant at this time seeks to revise the definition of the "Unitized Formation" as originally incorporated in said agreement.

**OPPOSITION OR OTHER PARTY**

(Please make a concise statement of the basis for opposing this application or otherwise state the position of the party filing this statement.)



**PROPOSED EVIDENCE**

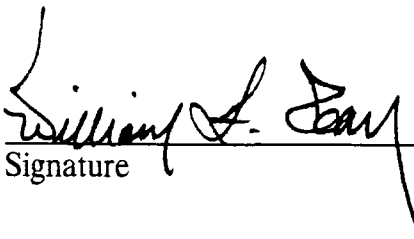
APPLICANT

WITNESSES (Name and expertise)	EST. TIME	EXHIBITS
Ronald W. Lanning, Landman	10 Min.	Approximately 4
Julie Gibbs, Geologist	10 Min.	Approximately 4

OPPOSITION

WITNESSES (Name and expertise)	EST. TIME	EXHIBITS
-----------------------------------	-----------	----------

**PROCEDURAL MATTERS**

  
\_\_\_\_\_  
Signature



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

RECEIVED  
OIL CONSERVATION DIVISION  
DEC 9 1991

BRUCE KING  
GOVERNOR

December 5, 1991

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

Texaco Exploration & Production Inc.  
P.O. Drawer 2100  
Denver, CO 80201

*Use File  
3344*

Attn: Mr. Ronald W. Lanning  
West Region Landman

Re: West Vacuum Unit

Gentlemen:

Your November 27th letter requesting my opinion as to the course of action you should follow in order to obtain approval of your proposed amendment to the unitized interval for the West Vacuum Unit has been received.

In reference to the 23 wells which were contributed to the unit and were completed outside the defined unitized formations, it is assumed these were grandfathered in at that time since the order did not require that any of these wells be squeezed.

Our geologist feels your proposed unitized interval 4007--4774 feet in the Texaco Exploration & Production Inc. West Vacuum Unit #13 would be some 200--300 feet into the Queen. If this is the case, the only option available would be through a hearing.

Since this type decision is outside our jurisdiction, we are referring this to our Santa Fe office. If you have further questions concerning this please contact David Catanach or Michael E. Stogner in our Santa Fe office (505) 827-5807 or (505) 827-5811.

Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton  
Supervisor, District I

JS/ed

cc: David Catanach  
Michael E. Stogner





Texaco USA

418 W. 3000  
Box 1000  
Albuquerque, NM 87107  
Tel. (505) 833-8000

November 27, 1991

**230410 - West Vacuum Unit (TPI)**

Lea County, New Mexico

Oil Conservation Division  
P.O. Box 1980  
Hobbs, New Mexico 88240

Attention: Mr. Jerry Sexton

Gentlemen:

Texaco is desirous of amending the definition of the unitized formation for this unit. A copy of the amendment is enclosed for your information. When the unit went into effect, 23 of the wells contributed were completed outside of the unitized formation as defined in the Unit Agreement. The reason for this is due in part to the difficulty in correlating the San Andres formation between logs. We feel a corrected definition will better serve as a basis for guiding future operation of the unit to obtain maximum recovery.

There are 68 working interest owners in this unit. To date we have received executed amendments from 58 owners with a cumulative working interest of 98.815059%.

The State of New Mexico owns all of the mineral interest under the unit. There are three overriding royalty interest owners who have not been contacted.

Please advise as to your opinion on the course of action we should follow for approval of this amendment. If you have any questions please call me at (303) 793-4244.

Very truly yours,

TEXACO EXPLORATION AND PRODUCTION INC.

Ronald W. Lanning  
West Region Landman

RWL

Enclosure

**AMENDMENT TO THE UNIT AGREEMENT  
FOR THE  
WEST VACUUM UNIT AREA  
COUNTY OF LEA  
STATE OF NEW MEXICO**

THIS AGREEMENT is entered into as of the first day of March, 1991, by and between the parties subscribing, ratifying, or consenting hereto, and herein referred to as the "parties hereto,"

**WITNESSETH:**

WHEREAS, the parties hereto are the owners of working, royalty, or other oil and gas interests in the Unit Area subject to this agreement; and

WHEREAS, the Unit Agreement for the West Vacuum Unit Area is dated October 1, 1964, and is recorded at Volume 250, Page 234 of the Miscellaneous Records of Lea County, New Mexico, and became effective January 1, 1966; and

WHEREAS, the Unit Agreement defines the unitized formation as follows:

"Unitized Formation" means that subsurface portion of the Unit Area including portions of the Grayburg-San Andres formations which occur between the logged depths, measured from the kelly bushing, of 4213 feet and 4750 feet in the Texaco Inc. State of New Mexico "V" Well No. 8 as shown on the Schlumberger Gamma-Neutron log of said well which is located 660 feet from the north line and 660 feet from the west line of Section 34, Township-17-South, Range-34-East, Lea County, New Mexico.

WHEREAS, it is the purpose of the parties hereto to change the definition of the unitized formation to more accurately reflect the unitized interval and serve as a basis for guiding future operation of the unit to obtain maximum recovery.

NOW THEREFORE, in consideration of the premises and the promises contained herein, the parties hereto amend the Unit Agreement for the West Vacuum Unit Area by changing the definition of the unitized formation to read as follows:

"Unitized Formation" means that subsurface portion of the unit area including portions of the Grayburg-San Andres formations which occur between the logged depths, measured from the derrick floor, of 4004 feet and 4774 feet in the Texaco

Exploration and Production Inc. West Vacuum Unit Well No. 13 as shown on the Halliburton Gamma Ray - Dual Spaced Neutron log of said well which is located 330 feet from the north line and 660 feet from the east line of Section 34, Township-17-South, Range-34-East, Lea County, New Mexico.

*300 feet in  
in to 00*

A person may become a party to this agreement by signing the original of this instrument, a counterpart thereof, or other instrument agreeing to be bound by the provisions hereof. The signing of any such instrument shall have the same effect as if all the parties hereto had signed the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed as of the date first above written.

TEXACO EXPLORATION AND PRODUCTION INC.

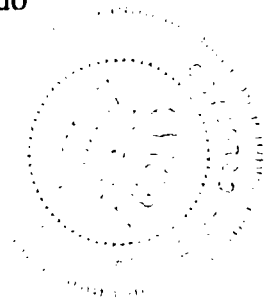
*R.R. O'Dwyer*  
R. R. O'Dwyer  
Attorney-in-Fact

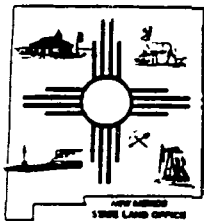
STATE OF COLORADO §  
COUNTY OF DENVER §

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of March, 1991, by R. R. O'Dwyer, Attorney-in-Fact of Texaco Exploration and Production Inc., a Delaware corporation, on behalf of the corporation.

*Charlie Will*  
Notary Public in and for the State of Colorado

**Charlie Will**  
2844 S. Vaughn Way  
Aurora, Colorado 80014  
My Commission expires October 25, 1993





State of New Mexico  
Commissioner of Public Lands

#3344

W. R. Humphries  
COMMISSIONER April 27, 1990

Advisory Board

George Clark  
Chairman

Kristin Conniff  
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

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

ATTN: S.G. Snyder

RE: West Vacuum Unit  
1990 Plan of Development

Gentlemen:

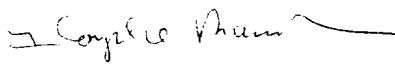
The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the West Vacuum Unit. Our approval is subject to like approval by all other appropriate agencies.

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

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

Very truly yours,

W.R. HUMPHRIES,  
COMMISSIONER OF PUBLIC LANDS

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

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

WRH/FOP/SMH

P.O. Box 1148 Santa Fe, NM 87504-1148 (505) 827-5760



State of New Mexico  
Department of Public Lands

Oil and Gas Division  
Santa Fe, New Mexico

#3344

March 28, 1990

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

Commissioner of Public Lands  
State of New Mexico  
Oil and Gas Division  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

RE: **WEST VACUUM UNIT**  
PLANS OF DEVELOPMENT  
LEA COUNTY, NEW MEXICO

Gentlemen:

Texaco, as Operator the West Vacuum Unit, respectfully submits for your approval a report of past operations and a plan of operation and development for 1990.

#### PAST OPERATIONS

Vacuum Field was discovered in May, 1929 when Vacuum Oil (Mobil Oil Company) completed the New Mexico "Bridges" State Well No. 1 for 119 BOPD. This well was shut-in until pipeline facilities became available in 1937.

Thirty-seven wells in the West Vacuum Unit area were drilled on 40-acre spacing during initial field development from 1937 to 1950. In 1975-1976 three 20-acre infill wells, WVU Nos. 51, 52, and 53, were drilled to evaluate infill drilling potential of the unit. Based on the performance of these wells, there has been no additional infill drilling.

The unitization agreement for the West Vacuum Unit became effective on October 1, 1966, and water injection began October 1, 1967.

Cumulative oil production for the West Vacuum Unit prior to unitization was 8,104,806 barrels. From the inception of unitization through January 1, 1990, the Unit has produced 3,932,249 BO and 18,229,477 BW have been injected.

New Mexico Oil Conservation  
Division, Commissioner of  
Public Lands

- 2 -

March 28, 1990

There are currently 26 active producing wells and 20 injection wells in the West Vacuum Unit. Average production for December, 1989 was 281 BOPD, 76 MCFPD, and 2,253 BWPD. The average injection rate was 2,506 BWPD with a maximum injection pressure of 1151 psi.

1989 UNIT ACTIVITIES:

In 1989, three producing wells (WVU Nos. 10, 17, 26) in the West Vacuum Unit were shut-in and are uneconomical to repair at this time. Additional activity included workovers on WVU Nos. 37 and 13.

DEVELOPMENT PLANS FOR 1990:

Texaco has no plans for development drilling in the West Vacuum Unit in 1990. Operations within the unit for 1990 will include continuous monitoring and optimization of unit production through the use of injection surveys, stimulations, and cleanouts. Equipment modifications, well workovers, and plugging will be performed as necessary.

Yours very truly,

Texaco Inc.

  
S. G. Snyder  
Portfolio Manager

JFG/srt

file  
chrono



## TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/  
LEASE NO.WELL  
NO.WELL  
STATUS

COMMENTS

CONDITION

SEQUENCE  
NUMBER

API NUMBER

(2) JOINTLY OWNED AND OPERATED BY TEXACO

322 NEW MEXICO AB STATE TN

9 ASD

NO REASON GIVEN N/A

22119500  
22119500  
22119500

3002521055

333000061042322  
TEXACO WI = 50.0000000

315 NEW MEXICO DK STATE CUM

1 NG-CN

22119600  
22119600  
22119600

3002524048

333000061020315  
TEXACO WI = 56.4335400

118 NEW MEXICO R STATE

24 ASD

NO FURTHER 12-24-87

22119700  
22119700  
22119700  
22119700  
22119700

3002529925

NCT-3 'TN'  
333000061020118

TEXACO WI = 50.0000000

EXPLORATION POTENTIAL.

22119800  
22119800  
22119800

323 NEW MEXICO &amp; STATE TN CUM

1 TR-O

08-08-89

22119800  
22119800  
22119800

3002529988

333000061020323  
TEXACO WI = 50.0000000

310 TEXACO MOBIL STATE CUMM

1 PM

TRIPLE-PENN

22119900  
22119900  
22119900

3002520962

333000061020310  
TEXACO WI = 50.0000000

1 PM

\*WOLF-TRIPLE DHC

22120000

3002520962

1 PM

\*CUM-ABO

22120100

3002520962

309 TEXACO-SHELL STATE COMM

1 ASD

\*TRIPLE-ABO

22120200  
22120200  
22120200  
22120200

3002520948

333000061020309

TEXACO WI = 50.0000000

HELD FOR SPARE CASING

1 PM

WOLF-CAMP

22120300

3002520948

1 PM

\*CUM-PENN

22120400

3002520948

312 WEST VACUUM UNIT

1 PM

22120500  
22120500

3002502139

333000061020312

SUB-AREA - 6102 BUCKEYE BUCKEYE SUB-AREA

## TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/  
LEASE NO.LEASE NAME/  
FRS NO.WELL  
NO.WELL  
STATUS

COMMENTS

CONDITION

SEQUENCE  
NUMBER

API NUMBER

(2) JOINTLY OWNED AND OPERATED BY TEXACO

TEXACO WI = 62.1022600

3	PM				22120500	3002502138
4	INJ				22120600	3002502136
5	INJ				22120700	3002502137
7	INJ				22120800	3002502183
8	PM				22120900	3002502181
9	INJ				22121000	3002502188
10	SI-O	UNEC. TO REPAIR	01-02-89		22121100	3002502185
11	INJ				22121200	3002502186
12	PM				22121300	3002502185
13	PM				22121400	3002502198
14	PM				22121500	3002502200
15	PM				22121600	3002502182
16	INJ				22121700	3002502184
17	SI-O	UNEC. TO REPAIR	01-02-89		22121800	3002502185
18	INJ				22121900	3002502186
19	PM				22122000	3002502186
20	INJ				22122100	3002502211
21	PM				22122200	3002502207
23	INJ				22122300	3002502199
24	PM				22122400	3002502203
25	INJ				22122500	3002502192
					22122600	3002502189

SUB AREA 6102 BUCKEYE BUCKEYE SUB-AREA

## TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/ LEASE NO.	LEASE NAME/ FRS NO.	WELL NO.	WELL STATUS	COMMENTS	CONDITION	SEQUENCE NUMBER	API NUMBER
--------------------------	------------------------	-------------	----------------	----------	-----------	--------------------	------------

(2) JOINTLY OWNED AND OPERATED BY TEXACO

26		SI-O		UNEC. TO REPAIR	01-02-89	22122700	3002599042
27		INU				22122800	3002502206
28		PM				22122900	3002502202
29		PM				22123000	3002502201
30		INU				22123100	3002502195
31		PM				22123200	3002502194
32		INU				22123300	3002502196
33		SI-O			07-16-86	22123400	3002502190
34		INU				22123500	3002502210
35		PM				22123600	3002502208
36		INU				22123700	3002502204
37		PM				22123800	3002502197
38		PM				22123900	3002502292
39		SI-O		UNECON. TO PROD	03-24-86	22124000	3002502288
40		INU				22124100	3002502290
41		PM				22124200	3002502291
42		INU				22124300	3002502289
43		PM				22124400	3002502278
44		INU				22124500	3002502286
45		PM				22124600	3002502283
46		PM				22124700	3002502282
47		PM				22124800	3002502279

SUB-AREA -6102 BUCKEYE-BUCKEYE SUB-AREA

## TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/ LEASE NO.	LEASE NAME/ FRS NO.	WELL NO.	WELL STATUS	COMMENTS	CONDITION
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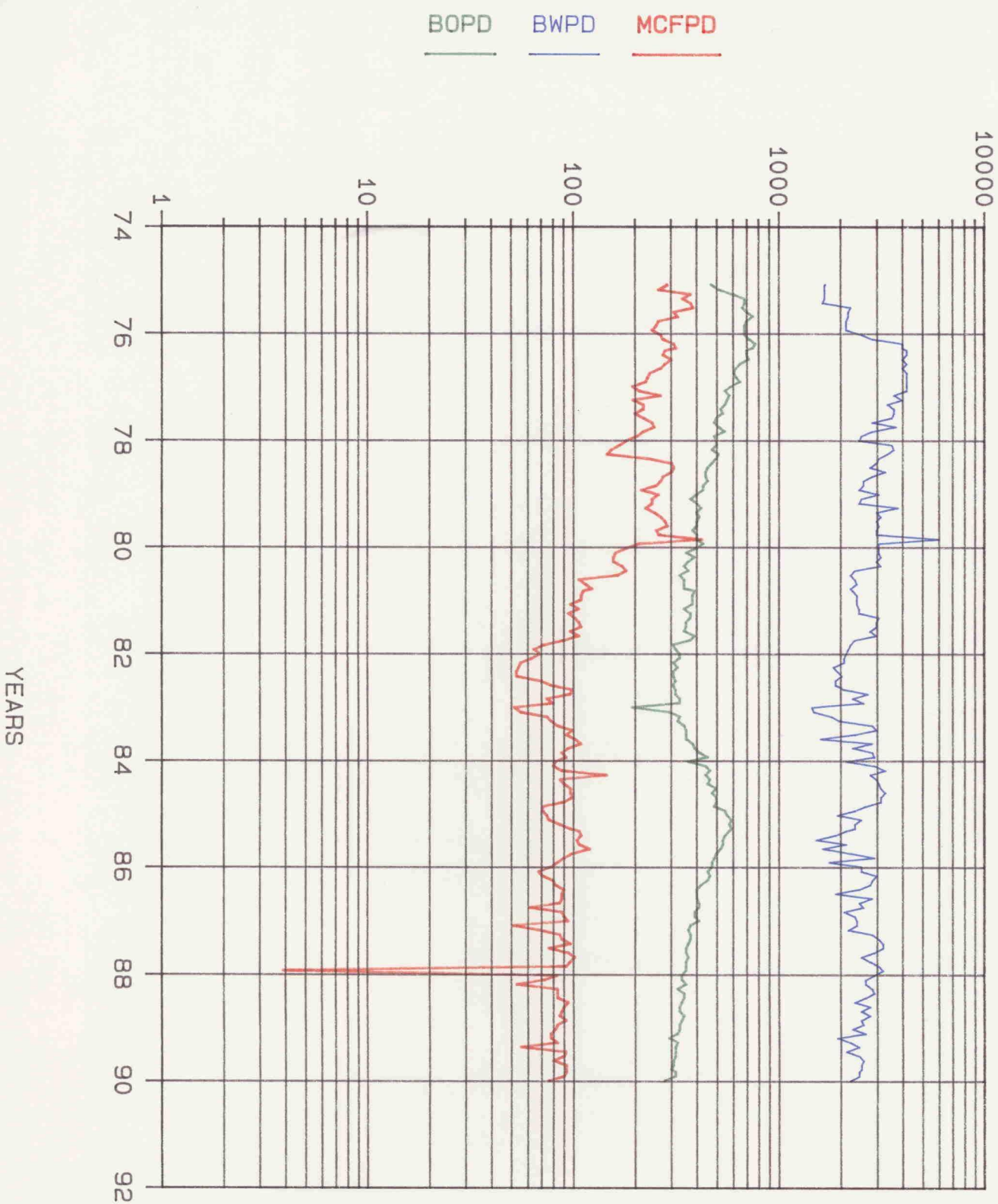
(2) JOINTLY OWNED AND OPERATED BY TEXACO

SEQUENCE  
NUMBER

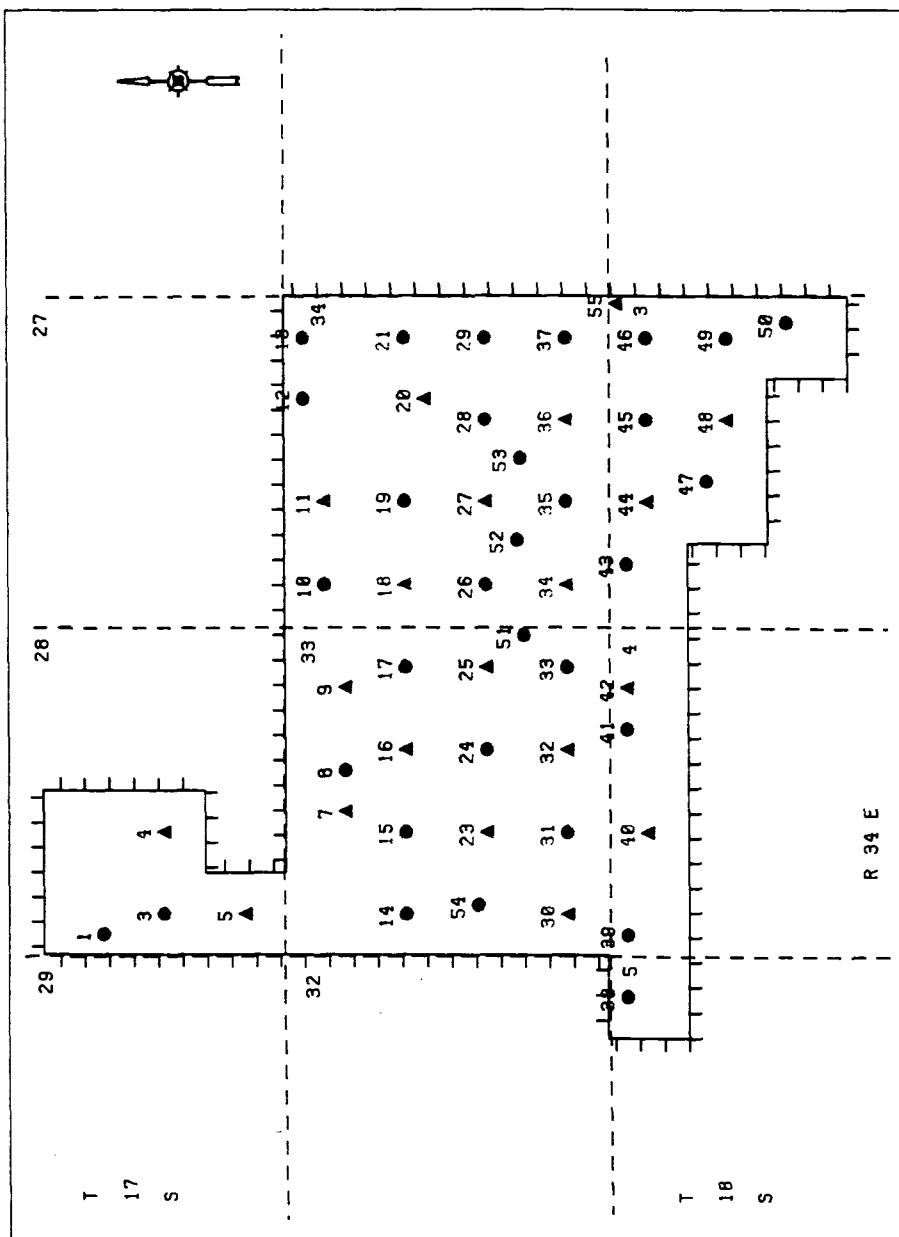
API NUMBER

48		INU				22124900	3002502284
49		PM				22125000	3002502285
50		PM				22125100	3002502280
51		SI-O		UNECON. TO PROD	10-31-86	22125200	3002525085
52		PM				22125300	3002525086
53		PM				22125400	3002525087
54		PM				22125500	3002527133
55		INU		*COUNTED ON VAC. COOP. INJ. SYSTEM #55.		22125600	3002528116
		WS				22125700	3002599006

# WEST VACUUM UNIT



LEASE DATA  
 LSE 858150  
 FLD 59800  
 OPER  
 ZONE 432  
 --  
 COUNTY 025  
 STATE 30  
 STATUS  
 CO 12037 MBO  
 CG 8072 MMCF  
 BOPD 281  
 BOPD 2253  
 MCFPD 76  
 WELLS 46



LEGEND:

● PRODUCING WELL

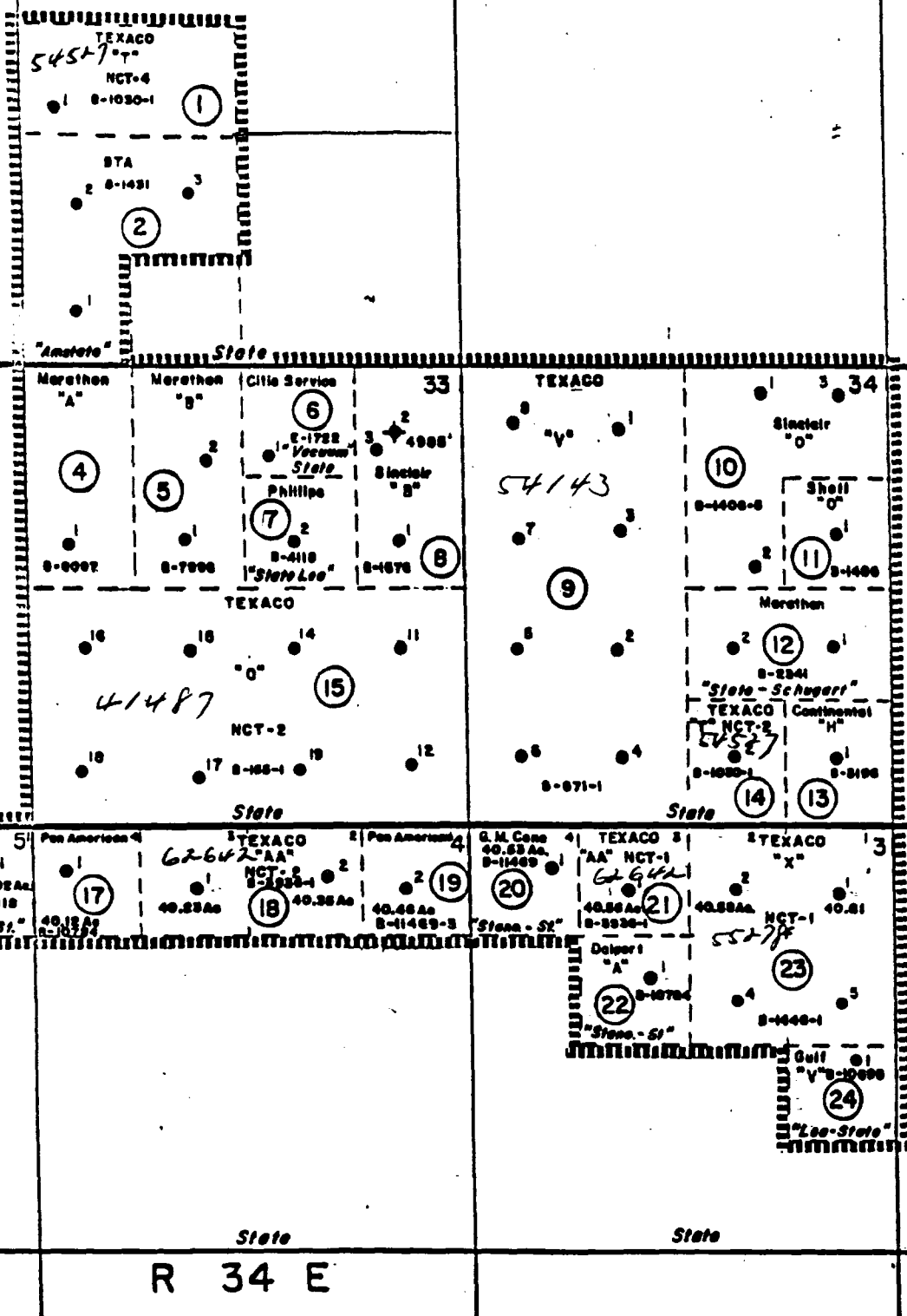
▲ INJECTION WELL

--- UNIT BOUNDARY

SECTION	TEXACO	U.S.A.
TITLE	VACUUM GRAYBURG SAN ANDRES FIELD	
	LER COUNTY, NEW MEXICO	
	WEST VACUUM UNIT	

**EXHIBIT "B"**  
**SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF ALL LANDS IN THE**  
**WEST VACUUM UNIT AREA, LEA COUNTY, NEW MEXICO**

Tract No.	Description of Land	No. of Acres	Serial No. and Expiration Date of Lease	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage	Percentage Unit Participation			
							Phase I	Phase II		
1	S/2 NW/4 Sec. 28, T-17S R-34E	80	B-1030-1 HBP	Texaco	0	Texaco	100.00000	1.01876	0.34397	
2	N/2 SW/4 & SW/4SW/4 Sec. 28, T17S, R34E	120	B-1431 HBP	BTA Oil	Amerada	6.2500	Carlton Beal	24.9650	0.99909	0.36400
							A.K. Trobaugh	24.9650	0.99909	0.36400
							M.I. Schwartz	0.8000	0.03202	0.01166
							H.I. Schwartz	0.8000	0.03202	0.01166
							H.D. Goldman	0.8000	0.03202	0.01166
							M.D. Goldman	0.8000	0.03202	0.01166
							Ernst Wolff	12.0000	0.48024	0.17496
							G.N. Frank	4.0000	0.16008	0.05832
							B.E. Alpern	4.8000	0.19210	0.06999
							Jack Weinstein	3.2000	0.12806	0.04666
							Herbert Winter	3.2000	0.12806	0.04666
							G. P. Palma	1.6000	0.06403	0.02333
							E.J. Horton	1.6000	0.06403	0.02333
							F. T. Joyce	1.6000	0.06403	0.02333
							Isaac Gordon	8.0000	0.32016	0.11664
							H. H. Black	1.6000	0.06403	0.02333
							R. B. Gordon	1.6000	0.06403	0.02333
							R.A. Gordon	1.6000	0.06403	0.02333
							W. S. Nevin	0.7200	0.02881	0.01050
							E. H. Palma	0.6000	0.02401	0.00875
Winter, Wolff & Co	0.7500	0.03002	0.01094	0.01094						
								4.00198	1.45804	
					6.2500		100.0000			
4	W/2 NW/4 Sec. 33, T17S, R-34E	80	B-8097 HBP	Marathon	0	Marathon	100.00000	1.65112	2.04149	



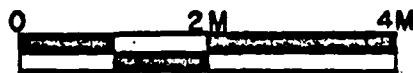
## LEGEND

JWDAS UNIT BOUNDRY

① UNIT TRACT NUMBER

## EXHIBIT A

TO  
UNIT AGREEMENT  
WEST VACUUM UNIT  
TOTAL - 2003.46 Ac.  
Lea County, New Mexico



Scale:

Drawn By: JWD

Date: 4-20-66

182-60  
7-0-7/10-66



Tract No.	Description of Land	No. of Acres	Serial No. and Expiration Date of Lease	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage	Percentage Unit Participation	
							Phase I	Phase II
5	E/2 NW/4 Sec. 33, T17S, R34E	80	B-7998 HBP	Marathon	0	Marathon	3.08956	4.64939
6	NW/4 NE/4 Sec. 33, T17S, R34E	40	E-1722 HBP	Cities Service Oil Company Continental	0	Cities Serv. Continental	1.10440	1.27751
							0.36813	0.42584
							1.47253	1.70335
7	SW/4 NE/4 Sec. 33, T17S, R34E	40	B-4118 HBP	Phillips	0	Phillips	1.32642	1.64978
8	E/2 NE/4 Sec. 33, T17S, R34E	80	B-1576 HBP	Sinclair	0	Sinclair	1.67953	2.58441
9	W/2 Sec. 34 T17S, R34E	320	B-871-1 HBP	Texaco	0	Texaco	25.65245	25.34241
10	N/2 NE/4 & SW/4 NE/4, Sec. 34, T17S, R34E	120	B-1406-5 HBP	Sinclair	12.5000	Sinclair	2.92477	5.23158
						Shell Canadian Exploration		
11	SE/4 NE/4 Sec. 34, T17S, R34E	40	B-1406 HBP	Shell	0	Shell	1.54640	2.34472
12	N/2 SE/4, Sec. 34, T17S, R34E	80	B-2341 HBP	Marathon	0	Marathon	3.47353	6.73713
13	SE/4 SE/4, Sec. 34, T17S, R34E	40	B-3196 HBP	Continental	0	Continental	5.83007	5.06367
14	SW/4 SE/4, Sec. 34, T17S, R34E	40	B-1030-1 HBP	Texaco	0	Texaco	3.74546	4.30692

230410-2

Tract No.	Description	No. of Acres	Serial No. and Expiration Date of Lease	Lessee of Record	Overriding Royalty or Production Payment and Percentage		Working Interest and Percentage		Percentage Unit Participation	
									Phase I	Phase II
15	S/2 Sec. 33 T17S, R34E	320	B-155-1 HBP	Texaco	0	Texaco	100.0000		21.26245	18.27223
16	NE/4 NE/4 Sec. 5, T18S, R34E	40.02	B-4118 HBP	Phillips	10.9375	Dalport	42.1875		0.36404	0.26112
						Cactus Drilg.	25,0000		0.21572	0.15474
						J.S. Hudnall	16.40625		0.14157	0.10155
						Geo. W. Pirtle	16.40625		0.14157	0.10155
							100.0000		0.86290	0.61896
17	NW/4 NW/4 Sec. 4, T18S, R34E	40.12	B-10784 HBP	Pan Am	3.1250	Pan Am	100.0000		0.65834	0.56476
						Jerry Curtis				
						Martin Yates &				
						Lillie M. Yates	3.1250			
						Pan American	6.2500			
							12.5000			
18	NE/4 NW/4 and NW/4 NE/4 Sec. 4, T18S, R34E	80.58	B-3936-1 HBP	Texaco	0	Texaco	100.0000		1.64706	1.18461
19	NE/4 NE/4 Sec. 4, T18S, R34E	40.46	B-11469-3 HBP	Pan Am	3.1250	Pan Am	100.0000		0.99116	0.56414
						Jerry Curtis				
						Martin Yates &				
						Lillie M. Yates	3.1250			
						Pan American	6.2500			
							12.5000			
20	NW/4 NW/4 Sec. 3, T18S, R34E	40.53	B-11469 HBP	Gordon M. Cone	5.46875	G.M. Cone	100.0000		1.14540	0.88230
21	NE/4 NW/4 Sec. 3, T18S, R34E	40.56	B-3936-1 HBP	Texaco	0	Texaco	100.0000		1.06909	1.88677
22	SE/4 NW/4 Sec. 3, T18S, R34E	40	B-10784 HBP	Dalport	10.9375	Dalport Oil	42.2916		0.42501	0.37734
						G.W. Pirtle	8.8542		0.08898	0.07900
						J.S. Hudnall	8.8542		0.08898	0.07900
						W.L. Todd, Jr.	17.5000		0.17587	0.15614
						W.L. Todd	12.5000		0.12562	0.11153
						T.E. Todd	10.0000		0.10050	0.08923
							100.0000		1.00496	0.89224

Tract No.	Description of Land	Serial No. and Expiration Date		Overriding Royalty or Production Payment and Percentage		Working Interest and Percentage		Percentage Unit Participation	
		No. of Acres	of Lease	Lessee of Record				Phase I	Phase II
23	NE/4 Sec.3 T18S,R34E	161.19	B-1446-1 HBP	Texaco	0	Texaco	100.0000	12.57905	10.76535
24	NE/4SE/4, Sec.3,T18S, R34E	40	B-10695 HBP	Gulf	0	Gulf	100.0000	1.36701	0.91178
							100.0000	100.00000	100.00000

~~2043.46~~  
2003.46

51571

STATE OF NEW MEXICO  
COUNTY OF LEA  
FILED

OCT 25 1966

13:25 o'clock PM  
Recorded in Book 259  
20  
J.A. RILEY, County Clerk  
By K.K. Depue

Note: Unit contains all State acreage with a base royalty of 12.5 per cent.

State of New Mexico  
Oil Conservation Commission

P. O. BOX 2088  
SANTA FE

**December 3, 1965**

Mr. Charles White  
White, Gilbert, Koch & Kelly  
Attorneys at Law  
Post Office Box 787  
Santa Fe, New Mexico

Re: Case No. 3344  
Order No. R-3007  
Applicant:  
  
TEXACO INC.

**Dear Sir:**

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

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC       x        
Artesia OCC                     
Aztec OCC                   

Other \_\_\_\_\_

TEXACO  
INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT  
MIDLAND DIVISION



FEB 7 AM 7 51  
P. O. BOX 3109  
MIDLAND, TEXAS 79704

February 3, 1966

UNIT AGREEMENT  
WEST VACUUM UNIT  
LEA COUNTY, NEW MEXICO

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

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

Gentlemen:

As required under Order No. R-3007, Texaco Inc. has attached hereto an executed copy of the Unit Agreement for the West Vacuum Unit, Lea County, New Mexico.

The unit was effective at 12:01 AM, January 1, 1966. Please advise if any additional information is required.

Yours very truly,

*C. L. Whigham* *JS*

C. L. Whigham  
Division Proration Engineer

JTJ:jl  
Attach.

# TEXACO INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT  
MIDLAND DIVISION



1965 OCT 28 AM 11:13

P. O. BOX 3109  
MIDLAND, TEXAS 79704

October 25, 1965

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

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

Gentlemen:

Texaco Inc. as the initial operator of the proposed West Vacuum Unit, Vacuum (Grayburg-San Andres) Pool, Lea County, New Mexico, respectfully requests that a hearing be scheduled to consider the application for (1) Approval of the West Vacuum Unit Agreement, (2) Approval to initiate waterflooding activities in the Vacuum (Grayburg-San Andres) Field, and (3) Approval to convert six wells to injection to form a normal five-spot pattern for waterflood operations. In support of our application, Texaco Inc. wishes to state the following facts.

(1) The proposed West Vacuum Unit is a portion of the Vacuum (Grayburg-San Andres) Pool, Lea County, New Mexico.

(2) Currently there are 48 wells in the proposed unit area producing from this reservoir in the average open hole interval from 4165' to 4708'.

(3) The area sought to be designated as the West Vacuum Unit comprises 2000 acres, more-or-less, situated in Lea County, New Mexico, which is more particularly described as follows:

Township 17 South, Range 37 East  
New Mexico Principal Meridian

Section 28: S/2 NW/4, N/2 SW/4, SW/4 SW/4  
Section 33: Entire Section  
Section 34: Entire Section  
Section 3 : NE/4, N/2 NW/4, SE/4 NW/4 and NE/4 SE/4  
Section 4 : N/2 N/2  
Section 5 : NE/4 NE/4

(4) The proposed pattern will be a normal five-spot and will consist of six injection wells.

DOCKET MAILED

Date 11-16-65

(5) The proposed wells to be converted to injection are as follows:

<u>Operator</u>	<u>Lease</u>	<u>Well No.</u>	<u>Location</u>
Mesa Retailers	State	2	A4-18-34
Sinclair Oil Co.	State "B"	3	✓ A33-17-34
Texaco Inc.	State "AA" (NCT-1)	1	C3-18-34
Texaco Inc.	State "O" (NCT-2)	11	I33-17-34
Texaco Inc.	State "V"	1	C34-17-34
Texaco Inc.	State "V"	2	K34-17-34

Attached is a plat of the West Vacuum Unit with the boundary of the unit shown by a hatched line. The proposed injection wells are shown by red triangles. It is respectfully requested that the subject application be set on the hearing docket scheduled for November 23, 1965.

Yours very truly,

*C. L. Whigham*

C. L. Whigham  
Division Proration Engineer

JTJ:jl  
Attach.

cc: State Engineer  
P. O. Box 1079  
Santa Fe, New Mexico

Max 3344

DESCRIPTION OF WATER SOURCE

TEXACO has appropriated water rights under 606.9 acres of Section 30, Township 17-South, Range 35-East, except five acres. This appropriation is for a combined total of 2100 acre feet per annum (44,633 BPD) of the shallow ground water of the Lea County Underground Water Basin by drilling four wells, each approximately 200 feet in depth and 13-3/8 inches in diameter, to be located as follows:

<u>Well No.</u>	<u>Subdivision</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>
L-4247	NW/4 NW/4	30	17-S	35-E
L-4247-X	SW/4 NW/4	30	17-S	35-E
L-4247-X-2	SW/4 SW/4	30	17-S	35-E
L-4247-X-3	NW/4 SW/4	30	17-S	35-E

said wells to be used for the secondary recovery of oil by waterflooding approximately 4240 acres in the Proposed West Vacuum Unit.

Under Permit No. L-4247X2 a water source well was drilled in the SW/4 SW/4 SW/4 of Section 30, Township 17-South, Range 35-East. Abbott Brothers, Hobbs, New Mexico, was the Drilling Contractor. Water-bearing strata were encountered from 83 to 115 feet and from 135 to 190 feet. Total depth is 200 feet and 11-3/4", 32# spiral welded casing with perforation from 100 to 200 feet was set at total depth. This well was completed August 28, 1963.



MAIN

65 OCT 28 AM 10

Case 3344

# SUMMARY OF RECOMMENDATIONS

It is recommended that TEXACO Inc. as Unit Operator of the West Vacuum Unit be permitted to operate a waterflood in the Vacuum (Grayburg-San Andres) Pool.

The proposed injection wells and locations are:

<u>Operator</u>	<u>Lease</u>	<u>Well No.</u>	<u>Location</u>
Mesa Retailers	State	2	A4-18-34
Sinclair Oil Co.	State "B"	3	A33-17-34
TEXACO Inc.	State "AA" (NCT-1)	1	C3-18-34
TEXACO Inc.	State "O" (NCT-2)	11	I33-17-34
TEXACO Inc.	State "v"	1	C34-17-34
TEXACO Inc.	State "v"	2	K34-17-34

These wells are denoted on the attached plat of the western portion of the Vacuum Field.

Fresh water from the Ogallala formation will be injected in the average open hole interval from 4165 feet to 4708 feet.

Attached is a radioactivity log plus a diagrammatic sketch of a typical injection well completion.

# TEXACO INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT  
MIDLAND DIVISION



OCT 28 AM 10 00  
P. O. BOX 3109  
MIDLAND, TEXAS

October 25, 1965

*Page 3344*

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

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

Gentlemen:

Texaco Inc. as the initial operator of the proposed West Vacuum Unit, Vacuum (Grayburg-San Andres) Pool, Lea County, New Mexico, respectfully requests that a hearing be scheduled to consider the application for (1) Approval of the West Vacuum Unit Agreement, (2) Approval to initiate waterflooding activities in the Vacuum (Grayburg-San Andres) Field, and (3) Approval to convert six wells to injection to form a normal five-spot pattern for waterflood operations. In support of our application, Texaco Inc. wishes to state the following facts.

(1) The proposed West Vacuum Unit is a portion of the Vacuum (Grayburg-San Andres) Pool, Lea County, New Mexico.

(2) Currently there are 48 wells in the proposed unit area producing from this reservoir in the average open hole interval from 4165' to 4708'.

(3) The area sought to be designated as the West Vacuum Unit comprises 2000 acres, more-or-less, situated in Lea County, New Mexico, which is more particularly described as follows:

Township 17 South, Range 37 East  
New Mexico Principal Meridian

Section 28: S/2 NW/4, N/2 SW/4, SW/4 SW/4  
Section 33: Entire Section  
Section 34: Entire Section  
Section 3 : NE/4, N/2 NW/4, SE/4 NW/4 and NE/4 SE/4  
Section 4 : N/2 N/2  
Section 5 : NE/4 NE/4

(4) The proposed pattern will be a normal five-spot and will consist of six injection wells.

(5) The proposed wells to be converted to injection are as follows:

<u>Operator</u>	<u>Lease</u>	<u>Well No.</u>	<u>Location</u>
Mesa Retailers	State	2	A4-18-34
Sinclair Oil Co.	State "B"	3	A33-17-34
Texaco Inc.	State "AA" (NCT-1)	1	C3-18-34
Texaco Inc.	State "O" (NCT-2)	11	I33-17-34
Texaco Inc.	State "V"	1	C34-17-34
Texaco Inc.	State "V"	2	K34-17-34

Attached is a plat of the West Vacuum Unit with the boundary of the unit shown by a hatched line. The proposed injection wells are shown by red triangles. It is respectfully requested that the subject application be set on the hearing docket scheduled for November 23, 1965.

Yours very truly,

*C. L. Whigham*

C. L. Whigham  
Division Production Engineer

JTJ:jl  
Attach.

cc: State Engineer  
P. O. Box 1079  
Santa Fe, New Mexico

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:

*5/4/92*  
*MS 5/4/92*  
*WJL 5/5/92*  
CASE NO. 3344 (Reopened)  
Order No. R-3007-A

APPLICATION OF TEXACO INC. FOR  
AMENDMENT OF DIVISION ORDER NO.  
R-3007, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on April 2 <sup>and</sup> 30, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this \_\_\_\_\_ day of May, 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) By Order No. R-3007 issued in Case No. 3344 on December 3, 1965, the Division, upon application of Texaco Inc., approved the West Vacuum Unit Agreement comprising some 2,000 acres, more or less, of State lands in portions of Townships 17 and 18 South, Range 34 East, NMPM, Lea County, New Mexico, for the purpose of initiating and conducting secondary recovery operations.

(3) The applicant, Texaco Inc., seeks to amend the West Vacuum Unit Agreement and thereby Order No. R-3007, by revising the definition of the "Unitized Formation" as originally incorporated in said agreement.

(4) According to evidence presented, the original "Unitized Formation" comprised portions of the Grayburg-San Andres formation which occur between the log depths, measured from the kelly bushing, of 4,213 feet and 4,750 feet in the Texaco Inc. State "V"

Well No. 8 located 660 feet from the North and West lines (Unit D) of Section 34, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as shown on the Schlumberger Gamma-Neutron Log run on said well.

(5) The applicant now proposes that the "Unitized Formation" comprise portions of the Queen, Grayburg and San Andres formations which occur between the log depths, measured from the derrick floor, of 4,004 feet and 4,774 feet in the Texaco Inc. West Vacuum Unit Well No. 13 located 330 feet from the North line and 660 feet from the East line (Unit A) of Section 34, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as shown on the Gamma Ray-Neutron Log run on said well.

(6) According to applicant's evidence and testimony, the "Unitized Formation" was originally intended to include the entire interval as described in Finding No. (5) above; however, due to the difficulty in correlating the San Andres formation between logs and due to the thickening of the reservoir in the unit area, such intent was not originally implemented.

(7) According to further evidence, the revenue from production from the unit area has historically been distributed among the various interest owners as if the "Unitized Formation" comprised the entire interval as now proposed by the applicant.

(8) As of the date of the hearing, approximately 99.8% of the working interest owners in the West Vacuum Unit have approved the applicant's proposed expansion of the "Unitized Formation".

(9) No interest owner appeared at the hearing in opposition to the application.

(10) Approval of the proposed amendment will allow the applicant the opportunity to recover hydrocarbons which may otherwise not be recovered, thereby preventing waste, and will not violate correlative rights.

(11) Pursuant to Part (4) of the West Vacuum Unit Agreement, the applicant is in the process of obtaining approval for the proposed amendment from the Commissioner of Public Lands for the State of New Mexico.

(12) Approval of the proposed expansion should become effective as per the terms of Part (4) of the West Vacuum Unit Agreement and upon approval of such expansion from the Commissioner of Public Lands for the State of New Mexico.

(13) The applicant should be required to file with the Division copies of the "Amendment to the Unit Agreement for the West Vacuum Unit Area" executed by the various working interest owners in said unit.

IT IS THEREFORE ORDERED THAT:

(1) The application of Texaco Inc. for an amendment to the West Vacuum Unit Agreement, originally approved by Division Order No. R-3007, to provide for expansion of the "Unitized Interval" is hereby granted.

(2) The "Unitized Interval" shall hereinafter comprise portions of the Queen, Grayburg and San Andres formations which occur between the log depths, measured from the derrick floor, of 4,004 feet and 4,774 feet in the Texaco Inc. West Vacuum Unit Well No. 13 located 330 feet from the North line and 660 feet from the East line (Unit A) of Section 34, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as shown on the Gamma Ray-Neutron Log run on said well.

(3) The expansion of the "Unitized Interval" shall become effective as per the terms of Part (4) of the West Vacuum Unit Agreement and upon approval of such expansion from the Commissioner of Public Lands for the State of New Mexico.

(4) The applicant shall file with the Santa Fe Office of the Division copies of the "Amendment to the Unit Agreement for the West Vacuum Unit Area" executed by the various working interest owners in said unit.

(5) Jurisdiction is hereby 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

S E A L

#3344



JIM BACA  
COMMISSIONER

State of New Mexico  
OFFICE OF THE  
Commissioner of Public Lands  
Santa Fe

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

April 6, 1992

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

Attn: Mr. William F. Carr

Re: Application of Texaco Inc. for Amendment of Division Order No.  
R-3007, West Vacuum Unit, Lea County, New Mexico

Dear Mr. Carr:

This office is in receipt of your certified letter of March 11, 1992, advising this office that Texaco, Inc. has filed an application with the NMOCD to amend the unitized formation as approved in the West Vacuum Unit Agreement, Lea County, New Mexico.

Since you will be expanding the originally approved unitized area, you must submit for our approval an application to expand the unit pursuant to Section 4 of the agreement. You will also need to amend Section 2 (j) of the West Vacuum Unit Agreement.

Pursuant to Section 4.2 of the West Vacuum Unit Agreement, the effective date of any enlargement of the Unit Area shall be 7:00 a.m. on the first day of the calendar month following compliance with conditions for enlargement as specified by Working Interest Owners, approval by the Commissioner and the Commission, and the filing for record of revised Exhibits "A" and "B" in the records of Lea County, NM.

Enclosed, for your information, is a copy of the West Vacuum Unit Agreement. If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*  
FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744  
JB/FOP/pm  
encls.  
cc: Reader File  
OCD