

**UNIT AGREEMENT
FOR THE DEVELOPMENT AND OPERATION OF THE
VACUUM GLORIETA EAST UNIT AREA
LEA COUNTY, NEW MEXICO**

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**Exhibit "A" (Map of Unit Area)
Exhibit "B" (Schedule of Ownership)
Exhibit "C" (Schedule of Tract Participation)**

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. <u>16</u>
CASE NO. <u>10485 & 10486</u>

10/01/93

**UNIT AGREEMENT
FOR THE DEVELOPMENT AND OPERATION
OF THE
VACUUM GLORIETA EAST UNIT
LEA COUNTY, NEW MEXICO**

THIS AGREEMENT, entered into as of the September 10, 1993, by and between the parties subscribing, ratifying, or consenting hereto, and herein referred to as "parties hereto";

WITNESSETH THAT:

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 Commissioner of Public Lands of the State of New Mexico is authorized by law (Sec. 3, Chapter 88, Laws 1943) as amended by Sec. 1 of Chapter 162, Laws of 1951, (Chap. 19, Art. 10, Sec. 45, N. M. Statutes 1978 Annot.), to consent to and approve the development or operation of State lands under agreements made by lessees of State land jointly or severally with other lessees where such agreements provide for the unit operation or development of part of or all of any oil or gas pool, field or area; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by an Act of the Legislature (Sec. 1, Chap. 162, Laws of 1951; Chap. 19, Art. 10, Sec. 47, N.M. Stats. 1978 Annot.) to amend with the approval of lessee, evidenced by the lessee's execution of such agreement or otherwise, any oil and gas lease embracing State lands so that the length of the term of said lease may coincide with the term of such agreements for the unit operation and development of part or all of any oil or gas pool, field or area; and

WHEREAS, the Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico is authorized by law (Chapter 72, Laws of 1935, as amended, being Sec. 70-2-1 et seq. N.M. Statutes 1978 Annotated) to approve this Agreement and the conservation provision hereof; and

WHEREAS, the parties hereto hold sufficient interests in the Vacuum Glorieta East Unit, comprised of the land hereinafter designated, to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to enable institution and consummation of secondary and/or enhanced oil recovery operations, conserve natural resources, prevent waste and secure other benefits obtainable through development and operation of the area subject to this Agreement under the terms, conditions, and limitations herein set forth.

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this Agreement their respective interests in the Unitized Formation underlying the Unit Area, and agree severally among themselves as follows:

SECTION 1. ENABLING ACT AND REGULATIONS: The oil and gas operating regulations in effect as of the Effective Date hereof governing drilling and producing operations, not inconsistent with the terms hereof or the laws of the State of New Mexico, are hereby accepted and made a part of this Agreement.

SECTION 2. DEFINITIONS: For the purpose of this Agreement, the following terms and expressions as used herein shall mean:

(a) "Unit Area" is defined as the land depicted on Exhibit "A" and described by Tracts in Exhibit "B" attached hereto and said land is hereby designated and recognized as constituting the Unit Area.

(b) "Commissioner" is defined as the Commissioner of Public Lands

of the State of New Mexico.

(c) "Division" is defined as the Oil Conservation Division of the State of New Mexico.

(d) "Unitized Formation" is defined as that stratigraphic interval underlying the Unit Area found between the top of the Glorieta Formation and the base of the Paddock Formation. The top of the Glorieta Formation is defined as all points underlying the Unit Area correlative to the depth of 5,838 feet and the base of the Paddock Formation is defined as all points underlying the Unit Area correlative to the depth of 6,235 feet, both depths as identified on the Schlumberger Sonic Log for the Socony Mobil Bridges State Well No. 95, located in the SE/4 SE/4 (Unit P) of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(e) "Unitized Substances" is defined as all oil, gas, gaseous substances, sulphur contained in gas, condensate, distillate and all associated and constituent liquid or liquefiable hydrocarbons, other than outside substances, within or produced from the Unitized Formation.

(f) "Working Interest" is defined as an interest in Unitized Substances by virtue of a lease, operating agreement or otherwise, including a carried interest, which interest is chargeable with and obligated to pay or bear, either in cash or out of production or otherwise, all or a portion of the cost of drilling, developing, producing and operating the Unitized Formation. Any interest in Unitized Substances which is a Working Interest as of the date the owner thereof executes, ratifies or consents to this Agreement shall thereafter be treated as a Working Interest for all purposes of this Agreement.

(g) "Royalty Interest" is defined as a right to or interest in any portion of the Unitized Substances or proceeds thereof other than a Working Interest.

(h) "Working Interest Owner" is defined as a party hereto who owns a Working Interest.

(i) "Royalty Owner" is defined as a party hereto who owns a Royalty Interest.

(j) "Tract" is defined as each parcel of land described as such and given a Tract number in Exhibit "B".

(k) "Tract Participation" is defined as the percentages of Unitized Substances allocated hereunder to a Tract during Phase I through Phase VI, as hereinafter defined. The Tract Participation of the Tracts within the Unit Area is shown on Exhibit "C" attached hereto.

(l) "Unit Participation" is defined as the sum of the percentages obtained by multiplying the Working Interest of a Working Interest Owner in each Tract having Tract Participation by the Tract Participation of such Tract.

(m) Phase Participation:

1. "Phase I" means that period of time beginning at 7:00 A.M. on the Effective Date hereof and continuing until 7:00 A.M. on the first day of the calendar month next following the date on which the cumulative oil production from the Unitized Formation underlying all of the Tracts described in Exhibit "A" attached hereto equals 1,000,000 barrels of oil, as determined from the oil production reports required by and submitted to the New Mexico Oil Conservation Division.
2. "Phase II" means that period of time beginning at 7:00 A.M. on the first day of the month following cumulation of 1,000,000 barrels of oil as described immediately above in Phase I and continuing until 7:00 A.M. on the first day of

The calendar month next following the date on which the cumulative oil production equals 1,600,000 barrels of oil from the unitized area and formation.

3. "Phase III" means that period of time beginning at 7:00 A.M. on the first day of the month following cumulation of 1,600,000 barrels of oil as described immediately above in Phase II and continuing until 7:00 A.M. on the first day of the calendar month next following the date on which the cumulative oil production equals 3,000,000 barrels of oil from the Unitized Area and Formation.
4. "Phase IV" means that period of time beginning at 7:00 A.M. on the first day of the month following cumulation of 3,000,000 barrels of oil as described immediately above in Phase III and continuing until 7:00 A.M. on the first day of the calendar month next following the date on which the cumulative oil production equals 5,300,000 barrels of oil from the Unitized Area and Formation.
5. "Phase V" means that period of time beginning at 7:00 A.M. on the first day of the month following cumulation of 5,300,000 barrels of oil as described immediately above in Phase IV and continuing until 7:00 A.M. on the first day of the calendar month next following the date on which the cumulative oil production equals 15,400,000 barrels of oil from the Unitized Area and Formation or 166 months have elapsed since the effective date of Unitization.
6. "Phase VI" means the remainder of the term of this Agreement after cumulative production has reached 15,400,000 barrels of oil from the Unitized Area and Formation or 166 months have elapsed since the effective date of Unitization.

(n) "Unit Operating Agreement" is defined as any agreement or agreements entered into, separately or collectively, by and between the Unit Operator and the Working Interest Owners as provided in Section 9, Accounting Provisions and Unit Operating Agreement, *infra*, and shall be styled "Unit Operating Agreement, Vacuum Glorieta East Unit, Lea County, New Mexico."

(o) "Unit Manager" is defined as the person or corporation appointed by the Unit Working Interest Owners to perform the duties of Unit Operator until the selection and qualification of a successor Unit Operator as provided for in Section 8, Successor Unit Operator, *hereof*.

(p) "Outside Substance" is defined as any substance obtained from any source other than the Unitized formation and injected into the Unitized Formation.

SECTION 3. UNIT AREA: The area specified on the map attached hereto marked Exhibit "A" is hereby designated and recognized as constituting the Unit Area, containing 4239.80 acres, more or less.

Exhibit "A," to the extent known to the Unit Operator, shows the boundaries and identity of Tracts and leases in the Unit Area. Exhibit "B" attached hereto is a schedule showing, to the extent known to the Unit Operator, the acreage comprising each Tract and the percentage of ownership of each Working Interest Owner in each Tract. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest as are shown in said map or schedule as being owned by such party. Exhibit "C" attached hereto is a schedule showing the Tract Participation of each Tract in the Unit Area during Phase I through Phase VI, which Tract Participation has been calculated upon the basis of all tracts within the Unit Area being committed to this Agreement as of the Effective Date *hereof*.

Exhibits "A," "B," and "C" shall be revised by Unit Operator whenever changes render such revision necessary and not less than two (2) copies of such revision shall be filed with the Commissioner and the Division.

SECTION 4. EXPANSION: The Unit Area may, when practicable, be expanded to include therein any additional Tract or Tracts regarded as reasonably necessary or advisable for the purposes of this Agreement. Such expansion shall be effected in the following manner.

(a) The Working Interest Owner or Owners of a Tract or Tracts desiring to bring such Tract or Tracts into the Unit Area shall file an application therefor with Unit Operator requesting such admission.

(b) Unit Operator shall circulate a notice of the proposed expansion to each Working Interest Owner in the Tract or Tracts proposed to be included in the Unit and/or affected by the proposed expansion, setting out the basis for admission, the Tract Participation proposed to be allocated to such Tract or Tracts, and other pertinent data. After negotiation (at Working Interest Owners' meeting or otherwise), if Working Interest Owners having a combined Phase VI Unit Participation of seventy-five percent (75%) or more have agreed to such Tract or Tracts being brought into the Unit Area, then Unit Operator shall, after preliminary concurrence by the Commissioner and the Division:

(1) Prepare a notice of proposed expansion describing the contemplated changes in the boundaries of the Unit Area, the reason therefor, the basis for admission of the additional Tract or Tracts, the Tract Participation to be allocated thereto, and the proposed effective date thereof; and

(2) Furnish copies of said notice to the Commissioner and the Division, each Working Interest Owner and to the lessee and lessor whose interests are proposed to be committed, advising such parties that thirty (30) days will be allowed for submission to the Unit Operator of any objections to such proposed expansion; and

(3) File, upon the expiration of said thirty (30) day period as set out in Subsection (2) immediately above, with the Commissioner and the Division, the following: (a) Evidence of mailing copies of said notice of expansion; (b) An application for such expansion; (c) An instrument containing the appropriate joinders in compliance with the qualification requirements of Section 13, Tracts Qualified for Unit Participation, *infra*; and (d) Copies of any objections received.

The expansion shall, after due consideration of all pertinent information and upon approval by the Commissioner and Division, become effective as of the date prescribed in the notice thereof. The revised Tract Participation of the respective Tracts included within the Unit Area prior to such enlargement shall remain the same ratio one to another.

There shall never be any retroactive allocation or adjustment of operating expenses or of interest in the Unitized Substances produced (or the proceeds of the sale thereof) by reason of an expansion of the Unit Area; provided, however, this limitation shall not prevent any adjustment of investment necessitated by such expansion.

SECTION 5. UNITIZED LAND AND UNITIZED SUBSTANCES: All land committed to this Agreement, as provided in Section 13, Tracts Qualified for Unit Participation, as to the Unitized Formation, defined in Section 2, Definitions, shall constitute land referred to herein as "Unitized Land" or "land subject to this Agreement."

All oil and gas in the Unitized Formation in the Unitized Land are unitized under the terms of this Agreement and herein are called "Unitized Substances."

SECTION 6. UNIT OPERATOR: PHILLIPS PETROLEUM COMPANY is hereby designated the Unit Operator, and by signing this instrument as Unit Operator, it agrees and consents to accept the duties and obligations of Unit Operator for the operation, development, and production of Unitized Substances as herein provided. Whenever reference is made herein to the Unit Operator, such reference means the Unit Operator acting in that capacity and not as an owner of interest in Unitized Substances, and the term "Working Interest Owner" when used herein shall include or refer to the Unit Operator as the owner of a Working Interest when such an interest is owned by it.

SECTION 7. RESIGNATION OR REMOVAL OF UNIT OPERATOR: Unit Operator shall have the right to resign at any time, but such resignation shall not become effective so as to release Unit Operator from the duties and obligations of Unit Operator and terminate Unit Operator's rights as such for a period of six (6) months after written notice of intention to resign has been given by Unit Operator to all Working Interest Owners and the Commissioner and Division, unless a new Unit Operator shall have taken over and assumed the duties and obligations of Unit Operator prior to the expiration of said period.

The Unit Operator shall, upon default or failure in the performance of its duties and obligations hereunder, be subject to removal by two (2) or more Working Interest Owners having in the aggregate eighty percent (80%) or more of the Unit Participation of the Phase then in effect, exclusive of the Working Interest Owner who is the Unit Operator. Such removal shall be effective upon notice thereof to the Commissioner and Division.

In all such instances of resignation or removal, until a successor to Unit Operator is selected and approved as hereinafter provided, the Working Interest Owners shall be jointly responsible for the performance of the duties of the Unit Operator and shall, not later than thirty (30) days before such resignation or removal becomes effective, appoint a Unit Manager to represent them in any action to be taken hereunder.

The resignation or removal of Unit Operator under this Agreement shall not terminate its right, title or interest as the owner of a Working Interest or other interest in Unitized Substances, but upon the resignation or removal of Unit Operator becoming effective, such Unit Operator shall deliver possession of all equipment, books and records, materials, appurtenances and any other assets used in conducting the Unit Operations, and owned by the Working Interest Owners (including any and all data and information which it might have gained or assembled by reason of its operation of the Unit Area), to the new duly qualified successor Unit Operator or to the Unit Manager if no such new Unit Operator is elected, to be used for the purpose of conducting Unit Operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment or appurtenances needed for the preservation of any wells. Nothing herein contained shall be construed to relieve or discharge any Unit Operator who resigns or is removed hereunder from any liability or duties accruing to or performable by it prior to the effective date of such resignation or removal.

SECTION 8. SUCCESSOR UNIT OPERATOR: Whenever Unit Operator shall tender its resignation as Unit Operator or shall be removed as hereinabove provided, the Working Interest Owners shall select a successor Unit Operator as herein provided. Such selection of a successor Unit Operator shall not become effective until (a) a Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and (b) the selection shall have been approved by the Commissioner and Division. If no successor

Unit Operator is selected as herein provided, the Commissioner may declare this Agreement terminated.

In selecting a successor Unit Operator, the affirmative vote of three (3) or more Working Interest Owners having a total of sixty-five percent (65%) or more of the Phase VI Unit Participation shall prevail; provided that if any one Working Interest Owner has a Phase VI Unit Participation of more than thirty-five percent (35%), its negative vote or failure to vote shall not be regarded as sufficient unless supported by the vote of one or more additional Working Interest Owner having a total Phase VI Unit Participation of at least five percent (5%). If the Unit Operator who is removed votes only to succeed itself or fails to vote, the successor Unit Operator may be selected by the affirmative vote of the owners of at least seventy-five percent (75%) of the Phase VI Unit Participation remaining after excluding the Unit Participation of Unit Operator so removed.

SECTION 9. ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT:

Costs and expenses incurred by Unit Operator in conducting Unit Operations hereunder shall be paid, apportioned among and borne by the Working Interest Owners in accordance with the Unit Operating Agreement. Such Unit Operating Agreement shall also provide the manner in which the Working Interest Owners shall be entitled to receive their respective proportionate and allocated share of the benefits accruing hereto in conformity with their underlying operating agreements, leases or other contracts and such other rights and obligations as between Unit Operator and the Working Interest Owners as may be agreed upon by the Unit Operator and the Working Interest Owners; however, no such Unit Operating Agreement shall be deemed either to modify any of the terms and conditions of this Unit Agreement or to relieve the Unit Operator of any right or obligation established under this Agreement, and in case of any inconsistency or conflict between this Agreement and the Unit Operating Agreement, this Agreement shall prevail. One true copy of any Unit Operating Agreement executed pursuant to this Section shall be filed with the Commissioner.

SECTION 10. RIGHTS AND OBLIGATIONS OF UNIT OPERATOR: Except as otherwise specifically provided herein, the exclusive right, privilege and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating and distributing the Unitized Substances are hereby delegated to and shall be exercised by the Unit Operator as herein provided. Upon request therefor, acceptable evidence of title to said rights shall be deposited with said Unit Operator, and, together with this Agreement, shall constitute and define the rights, privileges and obligations of Unit Operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this Agreement, the Unit Operator, in its capacity as Unit Operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

SECTION 11. PLAN OF OPERATIONS: It is recognized and agreed by the parties hereto that all of the land subject to this Agreement has been reasonably proven to be productive of Unitized Substances in paying quantities or is necessary for Unit Operations and that the object and purpose of this Agreement is to formulate and to put into effect a secondary enhanced oil recovery project in order to effect greater recovery of Unitized Substances, prevent waste and conserve natural resources. The parties hereto agree that the Unit Operator may, subject to the consent and approval of a plan of operation by the Working Interest Owners, the Division and the Commissioner, inject into the Unitized Formation, through any well or wells completed therein, brine, water, air, gas, oil, liquefied petroleum gas, steam and any other substances or a combination of any said substances, whether produced from the Unitized Formation or not, and that the location of input wells and the rates of

injection therein and the rate of production shall be governed by standards of good geological and petroleum engineering practices and conservation methods. Reasonable diligence shall be exercised by Unit Operator in complying with the obligations of any approved plan of operation. The parties hereto, to the extent they have the right so to do, hereby grant Unit Operator the right to use brine or water (or both) produced from any formation underlying the Unit Area for injection into the Unitized Formation; provided, however, that this grant of said right shall not preclude the use of brine or water (or both) produced from any formation other than the Unitized Formation for injection into formations other than the Unitized Formation. After commencement of secondary and/or enhanced oil recovery operations, Unit Operator shall furnish the Commissioner and the Division monthly injection and production reports for each well in the Unit. The Working Interest Owners, the Commissioner and the Division shall be furnished periodic reports on the progress of the plan of operation and any revisions or changes thereto necessary to meet changed conditions or to protect the interests of all parties to this Agreement; provided, however, that any major revisions of the plan of operation involving a basic deviation from the initial plan of operation shall be subject to the consent and approval of the Working Interest Owners, the Commissioner and Division.

The initial Plan of Operation shall be filed with the Commissioner and the Division concurrently with the filing of this Unit Agreement for final approval. Reasonable diligence shall be exercised in complying with the obligations of said plan of operation.

Notwithstanding anything to the contrary herein contained, the Unit Operator shall commence, if not already having done so, secondary recovery operations and/or enhanced oil recovery operations on the Unit Area not later than six (6) months after the Effective Date of this Agreement, or any extension thereof approved by the Commissioner and Division or this Agreement shall terminate automatically in which latter event the Unit Operator shall notify all interested parties. After such operations are commenced, Unit Operator shall carry on such operations as would a reasonably prudent operator under the same or similar circumstances.

SECTION 12. TRACT PARTICIPATION: The percentages of Tract Participation set forth in Exhibit "C" for each Tract within the Unit Area have been calculated and determined for Phase I through Phase VI hereof in accordance with the following information and formulas:

Primary Participation Factor

$1\% D + 49.5\% C + 49.5\% E$

Secondary Participation Factor

$20\% A + 20\% B + 20\% D + 20\% F + 20\% G$

Phase I Participation Percentage =
 $100\% \text{ Primary Participation Factor}$

Phase II Participation Percentage =
 $75\% \text{ Primary Participation Factor}$
+
 $25\% \text{ Secondary Participation Factor}$

Phase III Participation Percentage =
 $50\% \text{ Primary Participation Factor}$
+
 $50\% \text{ Secondary Participation Factor}$

Phase IV Participation Percentage =
 $25\% \text{ Primary Participation Factor}$
+
 $75\% \text{ Secondary Participation Factor}$

Phase V Participation Percentage =
15% Primary Participation Factor
+
85% Secondary Participation Factor

Phase VI Participation Percentage =
100% Secondary Participation Factor

- A = The Tract surface acres divided by the total Unit Area surface acres.
- B = The Tract cumulative oil recovery from the Unitized Formation divided by the total Unit Area cumulative oil recovery from the Unitized Formation as of January 1, 1992.
- C = The Tract remaining primary oil to be recovered from the Unitized Formation as of January 1, 1992 divided by the total Unit Area remaining primary oil to be recovered from the Unitized Formation as of January 1, 1992, as determined from the Vacuum Glorieta East Unit Technical Committee Report of November 12, 1992.
- D = The Tract ultimate primary oil to be recovered from the Unitized Formation divided by the total Unit Area ultimate primary oil to be recovered from the Unitized Formation, as determined by the Vacuum Glorieta East Unit Technical Committee Report of November 12, 1992.
- E = The Tract oil production from the Unitized Formation divided by the total Unit Area oil production from the Unitized Formation for the twelve (12) months prior to January 1, 1992.
- F = The Tract net pay oil in place from the Unitized Formation divided by the total Unit Area net pay oil in place from the Unitized Formation, as determined by the Vacuum Glorieta East Unit Technical Committee Report of November 1990.
- G = The Tract volumetric original oil in place from the Unitized Formation divided by the total Unit Area volumetric original oil in place from the Unitized Formation, as determined by the Vacuum Glorieta East Unit Technical Committee Report of November 1990.

Such percentages of Tract Participation during Phase I through Phase VI have been calculated upon the basis of all of said Tracts within the Unit Area being committed to this Agreement as of the Effective Date hereof, and such Tract Participation shall govern the allocation of all Unitized Substances produced after the Effective Date hereof, subject, however, to any revision or revisions of the Unit Area and Exhibit "C" in accordance with the provisions hereof.

In the event less than all of the Tracts are committed hereto as of the Effective Date hereof, Unit Operator shall promptly file with the Commissioner and Division at least two (2) copies of revised Exhibits "B" and "C" setting forth on Exhibit "C" the revised Tract Participations opposite each of the qualified tracts, which shall be calculated by using the tract factors and formula set forth hereinabove, but applying the same only to the qualified Tracts. The revised Exhibits "B" and "C" shall, effective as of the Effective Date of this Agreement, supersede the original Exhibits "B" and "C" attached hereto and shall thereafter govern the allocation of Unitized Substances unless disapproved by the Commissioner and Division within thirty (30) days after filing.

If, subsequent to the Effective Date of this Agreement, any additional tract becomes committed hereto under the provisions of Section 3, Unit Area, or Section 27, Non-joinder and Subsequent Joinder, or any committed tract is excluded herefrom under the provisions of Section 26, Loss of Title, Unit Operator shall revise

said Exhibits "B" and "C" or the latest revision thereof to show the new percentage participations of the then committed tracts, which revised exhibit shall, upon its approval by the Commissioner and the Division, supersede, as of its effective date, the last previously effective Exhibits "B" and "C." In any such revision of Exhibit "C," the revised percentage participations of the respective tracts listed in the last previously effective Exhibit "C" shall remain in the same ratio one to another.

SECTION 13. TRACTS QUALIFIED FOR UNIT PARTICIPATION: On and after the Effective Date hereof, the Tracts within the Unit Area which shall be entitled to participate in the production of Unitized Substances therefrom shall be the Tracts within the Unit Area that are qualified as follows:

(a) Each Tract as to which Working Interest Owners owning one hundred percent (100%) of the Working Interest therein have become parties hereto and as to which Royalty Owners owning seventy-five percent (75%) or more of the Royalty Interest therein have become parties hereto.

(b) Each Tract as to which Working Interest Owners owning one hundred percent (100%) of the Working Interest therein have become parties hereto and as to which Royalty Owners owning less than seventy-five percent (75%) of the Royalty Interest therein have become parties hereto and, further, as to which:

(i) All Working Interest Owners in any such Tract have joined in a request for the commitment of such Tract to this Agreement, and

(ii) Seventy-five percent (75%) of the combined voting interest of Working Interest Owners in all Tracts meeting the requirements of Section 13.(a) hereof have voted in favor of the commitment of such Tract.

For the purposes of this Section 13.(b), a Working Interest Owner's "voting interest" shall be equal to the ratio (expressed in percent) which its aggregate Phase VI Unit Participation in all Tracts qualifying under Section 13.(a) bears to the total Phase VI Unit Participation of all Working Interest Owners in all Tracts qualifying under Section 13.(a), as such Unit Participation is determined from the Tract Participation set out in Exhibit "C."

(c) Each Tract as to which Working Interest Owners owning less than one hundred percent (100%) of the Working Interest therein have become parties hereto, regardless of the percentage of Royalty Interest therein which is committed hereto and, further, as to which:

(i) The Working Interest Owner operating any such Tract and all of the other Working Interest Owners in such Tract who have become parties hereto have joined in a request for the commitment of such Tract to this Agreement and have executed and delivered an indemnity agreement indemnifying and agreeing to hold harmless the other Working Interest Owners in the Unit Area, their successors and assigns, against all claims and demands which may be made by the owners of Working Interest in such Tract who are not parties hereto and which arise out of the commitment of such Tract to this Agreement, and

(ii) Seventy-five percent (75%) of the combined voting interests of Working Interest Owners in all Tracts meeting the requirements of Section 13.(a) and (b) have voted in favor of the commitment of such Tract and acceptance of the indemnity agreement.

For the purposes of this Section 13.(c), a Working Interest Owner's "voting interest" shall be equal to the ratio (expressed in percent) which its aggregate Phase VI Unit Participation in all Tracts qualifying under Section 13.(a) and 13.(b) bears to the total Phase VI Unit Participation of all Working Interest Owners in all Tracts qualifying under Section 13.(a) and (b), as such Unit Participation is determined from the Tract Participations set out in Exhibit "C." Upon the commitment of such a Tract to this Agreement, the Unit Participation that would have been attributed to the nonsubscribing owners of the Working Interest in such Tract, had they become parties to this Agreement and the Unit Operating Agreement, shall be attributed to the Working Interest Owners in such Tract who have become parties to such agreements in proportion to their respective Working Interests in the Tract.

(d) Within sixty (60) days after the requirements for commencement of any Phase have been met, the Unit Operator will notify the Oil and Gas Division of the New Mexico State Land Office of such conversion to the next Phase.

SECTION 14. ALLOCATION OF UNITIZED SUBSTANCES: All Unitized Substances produced and saved from the committed Tracts within the Unit Area (less, save and except any part of such Unitized Substances which is used in conformity with good operating practices on the Unit Area for drilling, operating, camp and other production, development and pressure maintenance purposes, or which is unavoidably lost) shall be apportioned among and allocated to the committed Tracts within the Unit Area in accordance with the Tract Participation effective hereunder during the respective periods, either Phase I through Phase VI, in which such Unitized Substances were produced, as such Tract Participation is shown in Exhibit "C" or any revision thereof. The amount of Unitized Substances so allocated to each Tract, and only that amount (regardless of whether it be more or less than the amount of the actual production of Unitized Substances from the well or wells, if any, on such Tract) shall, for all intents, uses and purposes, be deemed to have been produced from such Tract.

The Unitized Substances allocated to each Tract shall be distributed among, or accounted for to, the parties hereto entitled to share in the production from such Tract in the same manner, in the same proportions, and upon the same conditions, as they would have participated and shared in the production from such Tract, or in the proceeds thereof, had this Agreement not been entered into, and with the same legal force and effect. No Tract committed to this Agreement and qualified for participation as heretofore provided shall be subsequently excluded from participation hereunder on account of depletion of Unitized Substances from such Tract.

If the Working Interest or the Royalty Interest in any Tract is, on or after the Effective Date hereof, divided with respect to separate parcels or portions of such Tract and owned severally by different persons, the Tract Participations assigned to such Tract shall, in the absence of a recordable instrument executed by all owners and furnished to Unit Operator fixing the divisions of ownership, be divided among such parcels or portions in proportion to the number of surface acres in each.

The Unitized Substances allocated to each Tract shall be delivered in kind to the respective Working Interest Owners and parties entitled thereto by virtue of the ownership of oil and gas rights therein or by purchase from such owners. Each Working Interest Owner and the parties entitled thereto shall have the continuing right to receive such production in kind at a common point within the Unit Area and to sell or dispose of the same as it sees fit. Each such party shall have the right to construct, maintain and operate all necessary facilities for that purpose on the Unit Area,

provided the same are so constructed, maintained and operated as not to interfere with operations carried on pursuant hereto or with operations upon or with regard to formations other than the Unitized Formation conducted within the Unit Area. Subject to Section 16, Royalty Settlement, hereof, any extra expenditure incurred by Unit Operator by reason of the delivery in kind of any portion of the Unitized Substances shall be borne by the party (excepting the State of New Mexico) receiving the same in kind.

If any party fails to take in kind or separately dispose of its proportionate share of Unitized Substances, Unit Operator shall have the right, for the time being and subject to revocation at will by the party owning the share, to purchase for its own account or sell to others such share at not less than the prevailing market price in the area for like production; provided that, all contracts of sale by Unit Operator of any other party's share of Unitized Substances shall be only for such reasonable periods of time as are consistent with the minimum needs of the industry under the circumstances, but in no event shall any such contract be for a period in excess of one (1) year. The proceeds of the Unitized Substances so disposed of by Unit Operator shall be paid to the party entitled thereto.

Any party receiving in kind or separately disposing of all or any part of the Unitized Substances allocated to any Tract, or receiving the proceeds therefrom, shall be responsible for making payment of all royalty to the parties entitled thereto, and shall indemnify all parties hereto, including Unit Operator, against any liability for all royalties, overriding royalties, production payments, and all other payments chargeable against or payable out of such Unitized Substances or the proceeds therefrom.

SECTION 15. OIL IN LEASE TANKAGE ON EFFECTIVE DATE: Unit Operator shall make a proper and timely gauge of all lease and other tanks within the Unit Area in order to ascertain the amount of merchantable oil above the pipeline connection in such tanks as of 7:00 A.M. on the Effective Date hereof. All such oil which has been produced legally shall be and remain the property of the Working Interest Owner entitled thereto the same as if the Unit had not been formed; and such Working Interest Owner shall promptly remove said oil from the Unit Area. Any such oil not so removed shall be sold by Unit Operator for the account of such Working Interest Owner, subject to the payment of all royalty to Royalty Owners under the terms and provisions of the Unit Agreement and any applicable lease or leases and other contracts. All such oil as is in excess of the prior allowable of the well or wells from which the same was produced shall be regarded and treated the same as Unitized Substances produced after the Effective Date hereof. If, as of the Effective Date hereof, any Tract is overproduced with respect to the allowable of the well or wells on the Tract and the amount of such overproduction has been sold or otherwise disposed of, such overproduction shall be regarded and included as a part of the Unitized Substances produced after the Effective Date hereof and the amount thereof charged to such Tract as having been delivered to the persons entitled to Unitized Substances allocated to such Tract.

SECTION 16. ROYALTY SETTLEMENT: The State of New Mexico and all Royalty Owners who, under existing contracts, are entitled to take in kind a share of the substances produced from any Tract unitized hereunder, shall hereafter be entitled to take in kind their share of the Unitized Substances allocated to such Tract, and Unit Operator shall make deliveries of such Royalty share taken in kind in conformity with the applicable contracts, laws and regulations. Settlement for Royalty Interests not taken in kind shall be made by Working Interest Owners responsible therefore, under existing contracts, laws and regulations, on or before the last day of each month for Unitized Substances produced during the preceding calendar month; provided, however, that nothing herein contained shall operate to relieve the lessees of any land from their

respective lease obligations for the payment of any Royalty due under their leases, except such Royalty shall be computed in accordance with the terms of this Unit Agreement.

If any Outside Substance, consisting of hydrocarbon natural gases or carbon dioxide or other nonhydrocarbon Outside Substance, is introduced into the Unitized Formation for use in pressure maintenance, stimulation of production or increasing ultimate recovery, which shall be in conformity with a plan first approved by the Commissioner and the Division, a like amount of such Outside Substance (to be accounted for on a FIFO basis) less appropriate deductions for loss from any cause, may be withdrawn from the Unitized Formation royalty free, except for Unitized Substances extracted therefrom; provided that such withdrawal shall be pursuant to such conditions and formula as may be prescribed or approved by the Commissioner and Division; provided further, that such right of withdrawal shall terminate on the termination of this Agreement. If any Outside Substance, which prior to injection is liquefied petroleum gas or other liquid hydrocarbon, is injected into the Unitized Formation for the purpose of increasing the ultimate recovery, which shall be in conformance with a plan first approved by the Commissioner and Division; part or all of such liquefied petroleum gas or other liquid hydrocarbon may be withdrawn royalty free pursuant to such conditions and formula as may be prescribed or approved by the Commissioner and Division.

Royalty due on account of State lands shall be computed and paid on the basis of all Unitized Substances allocated to such lands.

SECTION 17. RENTAL SETTLEMENT: Rentals or minimum royalties due on the leases committed hereto shall be paid by Working Interest Owners responsible therefor under existing contracts, laws and regulations provided that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any rental or minimum Royalty in lieu thereof, due under their leases. Rental for lands of the State of New Mexico subject to this Agreement shall be paid at the rate specified in the respective leases from the State of New Mexico, or may be reduced or suspended under order of the Commissioner pursuant to applicable laws and regulations.

SECTION 18. CONSERVATION: Operations hereunder and production of Unitized Substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by State laws and regulations. The use of fresh water in waterflood operations is prohibited unless expressly approved by the Commissioner of Public Lands on the basis of excessive technological or financial burden.

SECTION 19. DRAINAGE: The Unit Operator shall take appropriate and adequate measures to prevent drainage of Unitized Substances from Unitized Lands by wells on land not subject to this Agreement, or, with consent of the Commissioner and pursuant to applicable regulations, pay a fair and reasonable compensatory royalty as determined by the Commissioner.

SECTION 20. LEASES AND CONTRACTS CONFORMED AND EXTENDED: The terms, conditions and provisions of all leases, subleases and other contracts relating to exploration, drilling, development or operation for oil or gas on lands committed to this Agreement are hereby expressly modified and amended to the extent necessary to make the same conform to the provisions hereof, but otherwise to remain in full force and effect, and the parties hereto hereby consent that the Commissioner, as to State leases, shall by his approval hereof, or by the approval hereof by his duly authorized representative, does hereby establish, alter, change or revoke the drilling, producing, rental, minimum royalty and royalty requirements of State leases committed hereto and the regulations in respect thereto to conform said requirements to the provisions of this Agreement. Without limiting the generality of the

foregoing, all leases, subleases and contracts are particularly modified in accordance with the following:

(a) The development and operation of lands subject to this Agreement under the terms hereof shall be deemed full performance of all obligations for development and operation with respect to each and every part or separately owned Tract subject to this Agreement, regardless of whether there is any development of any particular part or Tract of the Unit Area, notwithstanding anything to the contrary in the lease, operating agreement or other contract by and between the parties hereto, or their respective predecessors in interest, or any of them.

(b) Drilling, producing, secondary recovery or enhanced oil recovery operations performed hereunder upon any Tract of Unitized Lands shall be accepted and deemed to be performed upon and for the benefit of each and every Tract, and no lease shall be deemed to expire by reason of failure to drill or produce wells situated on land therein embraced.

(c) Suspension of drilling or producing operations on all Unitized Land pursuant to direction or consent of the Commissioner and Division, or their duly authorized representatives, shall be deemed to constitute such suspension pursuant to such direction or consent as to each and every Tract of Unitized Lands.

(d) Each lease, sublease, or contract relating to the exploration, drilling, development, or operation for oil and gas, which by its terms might expire prior to the termination of this Agreement, is hereby extended beyond any such term so provided therein, so that it shall be continued in full force and effect for and during the terms of this Agreement.

(e) Termination of this Agreement shall not affect any lease which, pursuant to the terms thereof or any applicable laws, shall continue in force and effect thereafter.

(f) Any lease which is made subject to this Agreement shall continue in force beyond the term provided therein as to the lands committed hereto as long as such lands remain subject hereto.

(g) Any lease embracing lands of the State of New Mexico having only a portion of its land committed hereto shall be segregated as to that portion committed and that not committed, and the terms of such lease shall apply separately to such segregated portions commencing as of the Effective Date hereof; provided, however, that notwithstanding any of the provisions of this Agreement to the contrary, such lease shall continue in full force and effect beyond the term provided therein as to all lands embraced in such lease if oil or gas is, or has heretofore been, discovered in paying quantities on some part of the lands embraced in such lease committed to this Agreement or, so long as a portion of the Unitized Substances produced from the Unit Area is, under the terms of this Agreement, allocated to the portion of the lands covered by such lease committed to this Agreement, or, at any time during the term hereof, as to any lease that is then valid and subsisting and upon which the lessee or the Unit Operator is then engaged in bona fide drilling, reworking, or secondary recovery operations on any part of the lands embraced in such lease, then the same as to all lands embraced therein shall remain in full force and effect so long as such operations are diligently prosecuted, and if they result in the production of oil or gas, said lease shall continue in full force and effect as to all of the lands embraced therein, and so long thereafter as oil or gas in paying quantities is being produced from any portion of said lands.

SECTION 21. COVENANTS RUN WITH LAND: The covenants herein shall be construed to be covenants running with the land with respect to the interests of the parties hereto and their successors in interest until this Agreement terminates, and any grant, transfer or conveyance of interest in land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferee or other successor in interest. No assignment or transfer of any Working Interest subject hereto shall be binding upon Unit Operator until the first day of the calendar month after Unit Operator is furnished with the original, or acceptable photostatic or certified copy, of the recorded instrument of transfer; and no assignment or transfer of any Royalty Interest subject hereto shall be binding upon the Working Interest Owner responsible therefor until the first day of the calendar month after said Working Interest Owner is furnished with the original, or acceptable photostatic or certified copy, of the recorded instrument of transfer.

SECTION 22. EFFECTIVE DATE AND TERM: This Agreement shall become binding upon each party who executes or ratifies it as of the date of execution or ratification by such party and shall become effective as of 7:00 A.M. on the first day of the month next following:

(a) The execution or ratification of this Agreement and the Unit Operating Agreement by Working Interest Owners having a combined Phase VI Unit Participation of at least seventy-five percent (75%), and the execution or ratification of this Agreement by Royalty Owners owning a combined interest of at least seventy percent (70%) of the Phase VI Royalty Interest in said Unit Area; and

(b) The approval of this Agreement by the Commissioner and the Division; and

(c) The filing of at least one (1) counterpart of this Agreement for record in the office of the County Clerk of Lea County, New Mexico, by the Unit Operator; and

(d) The filing in the office of the County Clerk of Lea County, New Mexico, of a certificate by Unit Operator to the effect that (a), (b) and (c) above have been accomplished, and stating the Effective Date hereof;

and provided, further, that if (a), (b), (c) and (d) above are not accomplished on or before April 1, 1994, this Agreement shall terminate ipso facto on said date (hereinafter called "Termination Date") and thereafter be of no further force or effect, unless prior thereto this Agreement has been executed or ratified by Working Interest Owners having a combined Phase VI Unit Participation of at least sixty-five percent (65%) and the Working Interest Owners having a combined Phase VI Unit Participation of at least seventy-five percent (75%) committed to this Agreement have decided to extend the Termination Date for a period not to exceed one (1) year (hereinafter called "Extended Termination Date"). If said Termination Date is so extended and (a), (b), (c) and (d) above are not accomplished on or before said Extended Termination Date, this Agreement shall terminate ipso facto on said Extended Termination Date and thereafter be of no further force or effect.

The term of this Agreement shall be for and during the time that Unitized Substances are produced in paying quantities from the Unit Area and as long thereafter as diligent drilling, reworking or other operations (including secondary recovery operations) are prosecuted thereon without cessation of more than ninety (90) consecutive days, and as long thereafter as Unitized Substances are produced as aforesaid, unless sooner terminated by Working Interest Owners in the manner hereinafter provided.

This Agreement may be terminated at any time with the approval of

the Commissioner by Working Interest Owners having at least eighty percent (80%) Phase VI Unit Participation, as determined from Exhibit "C." Notice of such termination shall be given by Unit Operator to all parties hereto.

Unit Operator shall within thirty (30) days after the Termination Date of this Agreement, file for record in the office where a counterpart of this Agreement is recorded, a certificate to the effect that this Agreement has terminated according to its terms and stating further the Termination Date.

If not otherwise covered by the leases unitized under this Agreement, Royalty Owners hereby grant Working Interest Owners a period of six (6) months after termination of this Agreement in which to salvage, sell, distribute or otherwise dispose of the personal property and facilities used in connection with Unit Operations.

SECTION 23. APPEARANCES: Unit Operator shall have the right to appear for or on behalf of any and all interests affected hereby before the Commissioner and the Division, and to appeal from any order issued under the rules and regulations of the Commissioner or the Division, or to apply for relief from any of said rules and regulations or in any proceedings relative to operations before the Commissioner or the Division or any other legally constituted authority; provided, however, that any other interested party shall also have the right at his or its own expense to be heard in any such proceedings.

SECTION 24. NOTICES: All notices, demands, objections or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if made in writing and personally delivered to the party or parties or sent by postpaid certified mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party or parties may have furnished in writing to the party sending the notice, demand or statement.

SECTION 25. NO WAIVER OF CERTAIN RIGHTS: Nothing in this Agreement contained shall be construed as a waiver by any party hereto of the right to assert any legal or constitutional right or defense as to the validity or invalidity of any law of the State of New Mexico or rules or regulations issued thereunder in any way affecting such party, or as a waiver by any such party of any right beyond his or its authority to waive; provided, however, each party hereto covenants that during the existence of this Agreement such party will not resort to any action at law or in equity to partition the Unit Area or the facilities used in the development or operation hereof and to that extent waives the benefits of all laws authorizing such partition.

SECTION 26. LOSS OF TITLE: In the event that any Tract ceases to have sufficient Working Interest Owners committed to this Agreement to meet the conditions of Section 13, Tracts Qualified for Unit Participation, because of failure of title of any party hereto, such Tract shall be automatically regarded as not committed to this Agreement, effective as of 7:00 A.M. on the first day of the calendar month in which the failure of title is finally determined; provided, however, that such Tract shall not be so regarded if said Tract can be requalified for admission under Section 13 within ninety (90) days after the date on which such title failure was finally determined.

If any such Tract cannot be so requalified, Unit Operator shall revise the schedule previously filed with the commissioner setting forth the Tracts committed hereto, and Unit Operator shall revise Exhibit "C" to show the tracts in the Unit Area that remain committed hereto and the Tract Participation of each of said

Tracts, which revised Tract Participation shall be calculated and determined on the basis that the Tract Participation of each of said Tracts shall remain in the same ratio one to the other. Copies of the revised schedule and exhibit shall be filed with the Commissioner and same shall be effective as of 7:00 A.M. on the first day of the calendar month in which such failure of title is finally determined.

If title to a Working Interest fails, the rights and obligations of Working Interest Owners by reason of such failure shall be governed by the Unit Operating Agreement. If title to a Royalty Interest fails, but the Tract to which it relates remains committed to this Agreement, the party whose title failed shall not be entitled to participate hereunder insofar as its participation is based on such lost Royalty Interest.

In the event of a dispute as to the title to any Working Interest or Royalty Interest subject hereto, payment or delivery on account thereof may be withheld without liability or interest until the dispute is finally settled; provided, that as to the State land or leases, no payments of funds due the State of New Mexico shall be withheld, but such funds shall be deposited as directed by the Commissioner to be held as unearned money pending final settlement of the title dispute, and then applied as earned or returned in accordance with such final settlement.

Unit Operator, as such, is relieved from any responsibility for any defect or failure of any title hereunder.

SECTION 27. NONJOINDER AND SUBSEQUENT JOINDER: As the objective of this Unit Agreement is to have lands in the Unit Area operated and entitled to participation under the terms hereof, it is agreed that, notwithstanding anything else herein, no joinder shall be considered a commitment to this Unit Agreement unless the Tract involved is qualified under Section 13., hereof, Tracts Qualified for Unit Participation. Joinder in the Unit Agreement by a Working Interest Owner, at any time, must be accompanied by appropriate joinder to the Unit Operating Agreement in order for the interest to be regarded as effectively committed to this Unit Agreement. Joinder by any owner of a Royalty Interest, at any time, must be accompanied by appropriate joinder by the corresponding Working Interest in order for the interest to be regarded as committed hereto.

Any oil or gas interest in the Unitized Formation in lands within the Unit Area not committed hereto prior to final approval of this Agreement by the Commissioner may thereafter be committed hereto upon compliance with the applicable provisions of Section 13, Tracts Qualified for Unit Participation, hereof, within a period of two (2) months thereafter, on the same basis of participation as provided for in Section 12, Tract Participation, and set forth in Exhibit "C," by the owner or owners thereof subscribing or consenting in writing to this Agreement and, if the interest is a Working Interest, by the owner of such interest subscribing also to the Unit Operating Agreement.

It is understood and agreed, however, that after two (2) months from the Effective Date hereof, the right of subsequent joinder as provided in this Section shall be subject to such requirements or approvals and on such basis as may be agreed upon by at least four (4) Working Interest Owners having a combined Phase VI Unit Participation of not less than sixty-five percent (65%), provided that the Tract Participation of each previously committed Tract shall remain in the same ratio one to the other. Such joinder by a Working Interest Owner must be evidenced by its execution or ratification of this Unit Agreement and the Unit Operating Agreement. Such joinder by a Royalty Owner must be evidenced by its execution or ratification of this Unit Agreement and must be consented to in writing by the Working Interest Owner responsible for the payment of any benefits that may accrue hereunder in behalf

of such Royalty Owner. Except as may be otherwise herein provided, subsequent joinders shall be effective at 7:00 A.M. of the first day of the month following the filing with the Commissioner of duly executed documents necessary to establish effective commitment, unless reasonable objection to such joinder by the Commissioner is duly made within sixty (60) days after such filing. Notwithstanding any of the provisions to the contrary, all commitments of State of New Mexico land must be approved by the Commissioner.

SECTION 28. COUNTERPARTS: This Agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties and may be ratified or consented to by separate instrument in writing, specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document, and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described Unit Area.

SECTION 29. JOINDER COMMITMENT: Execution as herein provided by any party either as a Working Interest Owner or as a Royalty Owner shall commit all interests that may be owned or controlled by such party.

SECTION 30. TAXES: Each party hereto shall, for its own account, render and pay its share of any taxes levied against or measured by the amount or value of the Unitized Substances produced from the Unitized Land; provided, however, that if it is required or if it be determined that the Unit Operator or the several Working Interest Owners must pay or advance said taxes for the account of the parties hereto, it is hereby expressly agreed that the parties so paying or advancing said taxes shall be reimbursed therefore by the parties hereto, including Royalty Owners, who may be responsible for the taxes on their respective allocated share of said Unitized Substances. No such taxes shall be charged to the State of New Mexico or to any lessor who has a contract with a lessee which requires his lessee to pay such taxes.

SECTION 31. PERSONAL PROPERTY EXCEPTED: All lease and well equipment, materials and other facilities heretofore or hereafter placed by any of the Working Interest Owners on the lands covered hereby shall be deemed to be and shall remain personal property belonging to and may be removed by the Working Interest Owners. The rights and interest therein as among Working Interest Owners are covered by the Unit Operating Agreement.

SECTION 32. NO PARTNERSHIP: The duties, obligations and liabilities of the parties hereto are intended to be several and not joint or collective. This Agreement is not intended to create, and shall not be construed to create, an association or trust, or to impose a partnership duty, obligation or liability with regard to any one or more of the parties hereto. Each party hereto shall be individually responsible for its own obligation as herein provided.

SECTION 33. CORRECTION OF ERRORS: It is hereby agreed by all parties to this Agreement that Unit Operator is empowered to correct any mathematical or clerical errors which may exist in the pertinent exhibits to this Agreement; provided, however, that correction of any error other than mathematical or clerical shall be made by Unit Operator only after first having obtained approval of Working Interest Owners having a combined Phase VI Unit Participation of sixty-five percent (65%) or more and the Commissioner.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the first date above written and have set opposite their respective names the date of execution.

UNIT OPERATOR AND WORKING INTEREST OWNER:

PHILLIPS PETROLEUM COMPANY

Date _____

By: _____

J. S. Welin

Attorney-In-Fact

PA SDA DRW

ARCO OIL & GAS CO.

Date _____

By: _____

CHEVRON USA, INC.

Date _____

By: _____

EXXON CORPORATION

Date _____

By: _____

MARATHON OIL COMPANY

Date _____

By: _____

SHELL WESTERN E&P INC.

Date _____

By: _____

OXY USA, INC.

Date _____

By: _____

TEXACO EXPLORATION & PRODUCTION INC.

Date _____

By: _____

THE MCBEE COMPANY

Date _____

By: _____

OVERRIDING ROYALTY INTEREST OWNERS:

WILLIAM EDWARD BURGLAND, CO-TRUSTEE

Date _____

By: _____
William Edward Burgland,
Co-Trustee of the Frederick H.
Burgland Trust

BETTY B. KARAY, CO-TRUSTEE

Date _____

By: _____
Betty B. Karay, Co-Trustee
of the Frederick H. Burgland
Trust

STATE OF TEXAS }

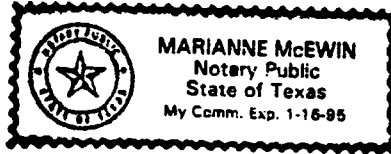
COUNTY OF ECTOR }

The foregoing instrument was acknowledged before me this 10th
day of September, 1993, by J. S. Welin, as
Attorney-in-Fact, of Phillips Petroleum Company, a Delaware
corporation, on behalf of said corporation.

Marianne McEwin
Notary Public in and for the State of Texas

My Commission Expires:

1-16-95



STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____
day of _____, 1993, by _____, as
_____, of Arco Oil & Gas Company, a _____
corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____
day of _____, 1993, by _____,
as _____, of Chevron USA, Inc., a _____
corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____
day of _____, 1993, by _____,
as _____, of Exxon Corporation, a _____
corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____
day of _____, 1993, by _____,
as _____, of Marathon Oil Company, a _____
corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____
day of _____, 1993, by _____,
as _____, of Shell Western E&P Inc., a _____
corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____ day of _____, 1993, by _____, as _____, of OXY USA, Inc., a _____ corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____ day of _____, 1993, by _____, as _____, of Texaco Exploration & Production Inc., a _____ corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF TEXAS }

COUNTY OF }

The foregoing instrument was acknowledged before me this ____ day of _____, 1993, by _____, as _____, of The McBee Company, a _____ corporation, on behalf of said corporation.

Notary Public in and for the State of Texas

My Commission Expires:

STATE OF _____ }

COUNTY OF _____ }

The foregoing instrument was acknowledged before me this ____ day of _____, 1993, by William Edward Burgland, Co-Trustee of the Frederick H. Burgland Trust, on behalf of said trust.

Notary Public in and for the State of

My Commission Expires:

STATE OF _____ }

COUNTY OF _____ }

The foregoing instrument was acknowledged before me this ____ day of _____, 1993, by Betty B. Karay, Co-Trustee of the Frederick H. Burgland Trust, on behalf of said trust.

Notary Public in and for the State of

My Commission Expires:

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF THAT CERTAIN
VACUUM GLORIETA EAST UNIT AGREEMENT DATED SEPTEMBER 10, 1993
BETWEEN PHILLIPS PETROLEUM COMPANY AS OPERATOR
AND ARCO OIL AND GAS COMPANY, ET AL AS NON-OPERATOR

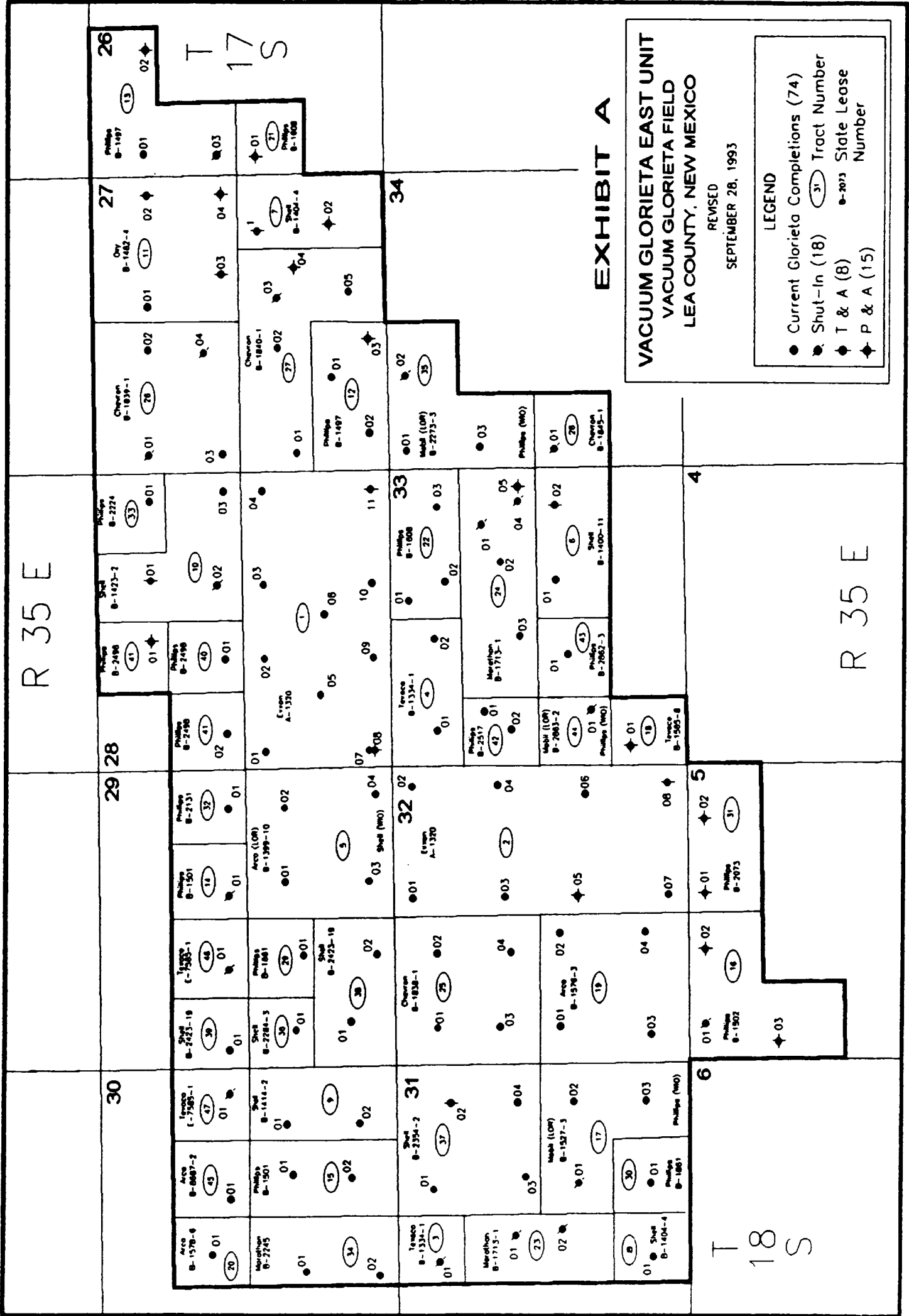


EXHIBIT "B"

**ATTACHED TO AND MADE A PART OF THAT CERTAIN VACUUM GLORIETA EAST UNIT AGREEMENT
DATED SEPTEMBER 10, 1993, BETWEEN PHILLIPS PETROLEUM COMPANY AS OPERATOR
AND ARCO OIL AND GAS COMPANY, ET AL AS NON-OPERATOR**

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO.OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSEE OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
1	11-22-28	State K	24241-001	T17S-R35E Sec. 28: S/2 Lea County, New Mexico	320.00	A-1320	12.5	Exxon Corporation	None Corporation	Exxon Corporation 100%
2	11-22-28	State K	24241-001	T17S-R35E Sec. 32: E/2 Lea County, New Mexico	320.00	A-1320	12.5	Exxon Corporation	None Corporation	Exxon Corporation 100%
3	11-16-32	Skelly J State	NM316668	T17S-R35E Sec. 31: NE/4 NW/4 Lea County, New Mexico	40.00	B-1334-1	12.5	Texaco Exploration & Production Inc.	None	Texaco Expl.& Pr.Inc. 100%
4	11-16-32	Skelly P State	NM316668	T17S-R35E Sec. 33: N/2 NW/4 Lea County, New Mexico	80.00	B-1334-1	12.5	Texaco Exploration & Production Inc.	None	Texaco Expl.& Prod.Inc. 96.027% Shell Western E&P Inc. 3.973%

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO.OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSEE OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
5	12-03-32	State M	NM-890	T17S-R35E Sec. 29: SE/4 Lea County, New Mexico	160.00	B-1399-10	12.5	Arco Oil & Gas Co.	None	Shell Western E&P Inc. 100%
6	12-03-32	State T	NM-891	T17S-R35E Sec. 33: N/2 SE/4 Lea County, New Mexico	80.00	B-1400-11	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
7	12-03-32	State V	NM-878	T17S-R35E Sec. 27: E/2 SE/4 Lea County, New Mexico	80.00	B-1404-4	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
8	12-03-32	State E	NM-878	T17S-R35E Sec. 31: SE/4 SW/4 Lea County, New Mexico	40.00	B-1404-4	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
9	12-03-32	State B	NM-882	T17S-R35E Sec. 30: E/2 SE/4 Lea County, New Mexico	80.00	B-1414-2	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO.OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSEE OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
10	12-03-32	State N	NM-575	T17S-R35E Sec. 28: W/2 NE/4, SE/4 NE/4 Lea County, New Mexico	120.00	B-1423-2	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
11	11-26-32	State K	6-3010106	T17S-R35E Sec. 27: NE/4 Lea County, New Mexico	160.00	B-1482-4	12.5	OXY USA Inc.	None	OXY USA Inc. 100%
12	12-19-32	Santa Fe	015370-000	T17S-R35E Sec. 27: S/2 SW/4 Lea County, New Mexico	80.00	B-1497	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
13	12-19-32	Santa Fe	015201-000	T17S-R35E Sec. 26: W/2 NW/4, NE/4 NW/4 Lea County, New Mexico	120.00	B-1497	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
14	12-19-32	Santa Fe	015201-000	T17S-R35E Sec. 29: SW/4 NE/4 Lea County, New Mexico	40.00	B-1501	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO. OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSEE OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
15	12-19-32	Santa Fe	015203-000	T17S-R35E Sec. 30: W/2 SE/4 Lea County, New Mexico	80.00	B-1501	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
16	12-19-32	Santa Fe	015204-000	T18S-R35E Sec. 5: Lots 3 & 4, SW/4 NW/4 Lea County, New Mexico	119.95	B-1502	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
17	12-21-32	State K	221487-000	T17S-R35E Sec. 31: N/2 SE/4, SE/4 SE/4 Lea County, New Mexico	120.00	B-1527-3	12.5	Mobil Producing Texas & New Mexico, Inc.	None	Phillips Petroleum Company 100%
18	12-29-32	State BC	NM82148	T17S-R35E Sec. 33: SW/4 SW/4 Lea County, New Mexico	40.00	B-1565-8	12.5	Texaco Exploration & Production Inc.	None	Texaco Expl.& Pr.Inc. 100%

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19	01-04-33	State B-1576	30-025-006000- 001	T17S-R35E Sec. 32: SW/4 Lea County, New Mexico	160.00	B-1576-3	12.5	Arco Oil & Gas Co.	None	Arco Oil & Gas Co. 100%
20	01-04-33	State B-1578	30-025-006000- 001	T17S-R35E Sec. 30: SE/4 NW/4 Lea County, New Mexico	40.00	B-1578-6	12.5	Arco Oil & Gas Co.	None	Arco Oil & Gas Co. 66.67% Wm B McBee 33.33%
21	01-10-33	Santa Fe	015214-000	T17S-R35E Sec. 26: NW/4 SW/4 Lea County, New Mexico	40.00	B-1608	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
22	01-10-33	Santa Fe	015214-000	T17S-R35E Sec. 33: N/2 NE/4 Lea County, New Mexico	80.00	B-1608	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
23	02-10-33	Warn St AC 1	01-01-NM-387	T17S-R35E Sec. 31: SE/4 NW/4, NE/4 SW/4 Lea County, New Mexico	80.00	B-1713-1	12.5	Marathon Oil Company	None	Marathon Oil Company 100%

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24	02-10-33	Warn St AC 3	01-01-NM-387	T17S-R35E Sec. 33: S/2 NE/4, SE/4 NW/4 Lea County, New Mexico	120.00	B-1713-1	12.5	Marathon Oil Company	None Company	Marathon Oil 100%
25	03-31-33	State 3-32	T49-0110	T17S-R35E Sec. 32: NW/4 Lea County, New Mexico	160.00	B-1838-1	12.5	Chevron USA, Inc.	None	Chevron USA, Inc. 100%
26	03-31-33	State 5-27	T49-0310	T17S-R35E Sec. 27: NW/4 Lea County, New Mexico	160.00	B-1839-1	12.5	Chevron USA, Inc.	None	Chevron USA, Inc. 100%
27	03-31-33	State 4-27	T49-0520	T17S-R35E Sec. 27 N/2 SW/4, W/2 SE/4 Lea County, New Mexico	160.00	B-1840-1	12.5	Chevron USA, Inc.	None	Chevron USA, Inc. 100%

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28	03-31-33	State 6-34	T49-0420	T17S-R35E Sec. 34: NW/4 SW/4 Lea County, New Mexico	40.00	B-1845-1	12.5	Chevron USA, Inc.	None	Chevron USA, Inc. 100%
29	04-10-33	Santa Fe	015221-000	T17S-R35E Sec. 29: NE/4 SW/4 Lea County, New Mexico	40.00	B-1861	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
30	04-10-33	Santa Fe	015221-000	T17S-R35E Sec. 31: SW/4 SE/4 Lea County, New Mexico	40.00	B-1861	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
31	08-10-33	Santa Fe	015370-000	T18S-R35E Sec. 5: Lots 1 & 2 Lea County, New Mexico	79.85	B-2073	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
32	09-11-33	Santa Fe	015395-000	T17S-R35E Sec. 29: SE/4 NE/4 Lea County, New Mexico	40.00	B-2131	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%

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33	05-22-34	Santa Fe	015472-000	T17S-R35E Sec. 28: NE/4 NE/4 Lea County, New Mexico	40.00	B-2224	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
34	11-22-33	Staplin State AC 1	01-01-NM-265	T17S-R35E Sec. 30: E/2 SW/4 Lea County, New Mexico	80.00	B-2245	12.5	Marathon Oil Company	None	Marathon Oil Company 100%
35	12-07-33	State M	221489-000	T17S-R35E Sec. 34: N/2 NW/4, SW/4 NW/4 Lea County, New Mexico	120.00	B-2273-3	12.5	Mobil Producing Texas & New Mexico, Inc.	None	Phillips Petroleum Company 100%
36	12-09-33	State H	NM-1117	T17S-R35E Sec. 29: NW/4 SW/4 Lea County, New Mexico	40.00	B-2284-3	12.5	Shell Western E&P Inc.		Shell Western E&P Inc 100%

ORRI of 1/16 X 8/8
William Edward Burgland
and Betty B. Karay, Co-
Trustees of Frederick
H. Burgland Trust, 1835
Santa Barbara Drive,
Denedin, FL 34698

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO.OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSEE OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
37	01-02-34	State A	NM-1021	T17S-R35E Sec. 31: NE/4 Lea County, New Mexico	160.00	B-2354-2	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
38	01-15-34	State F	NM-1042	T17S-R35E Sec. 29: S/2 SW/4 Lea County, New Mexico	80.00	B-2423-19	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
39	01-15-34	State I	NM-1019	T17S-R35E Sec. 29: SW/4 NW/4 Lea County, New Mexico	40.00	B-2423-19	12.5	Shell Western E&P Inc.	None	Shell Western E&P Inc. 100%
40	05-22-34	Santa Fe	015628-000	T17S-R35E Sec. 28: SE/4 NW/4 Lea County, New Mexico	40.00	B-2498	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
41	05-22-34	Santa Fe	015628-000	T17S-R35E Sec. 28: SW/4 NW/4, NE/4 NW/4 Lea County, New Mexico	80.00	B-2498	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO. OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSOR OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
42	02-10-34	Santa Fe	015635-000	T17S-R35E Sec. 33: SW/4 NW/4 Lea County, New Mexico	40.00	B-2517	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
43	05-21-34	Santa Fe	021796-000	T17S-R35E Sec. 33: NE/4 SW/4 Lea County, New Mexico	40.00	B-2862-3	12.5	Phillips Petroleum Company	None	Phillips Petroleum Company 100%
44	05-21-34	State 0	221490-000	T17S-R35E Sec. 33: NW/4 SW/4 Lea County, New Mexico	40.00	B-2863-2	12.5	Mobil Producing Texas & New Mexico, Inc.	None	Phillips Petroleum Company 100%
45	05-10-40	State "L" DE	30-025-006525-001	T17S-R35E Sec. 30: SW/4 NE/4 Lea County, New Mexico	40.00	B-8667-2	12.5	Arco Oil & Gas Co.	None	Arco Oil & Gas Co. 100%
46	11-17-53	NM CG St NCT 2	NM163199	T17S-R35E Sec. 29: SE/4 NW/4 Lea County, New Mexico	40.00	E-7585-1	12.5	Texaco Exploration & Production Inc.	None	Texaco Expl. & Pr.Inc. 100%

TRACT NO.	LEASE DATE	LEASE NAME	COMPANY LEASE NUMBER	DESCRIPTION	NO.OF ACRES	STATE LEASE NUMBER	LEASE ROYALTY RATE (PERCENTAGE)	LESSEE OF RECORD	OVERRIDING ROYALTY PERCENTAGE	WORKING INTEREST OWNER & %
47	11-17-53	NM CG St NCT 1	NM163199	T17S-R35E Sec. 30: SE/4 NE/4 Lea County, New Mexico	40.00	E-7585-1	12.5	Texaco Exploration & Production Inc.	None	Texaco Expl.& Pr.Inc. 100%

TOTAL STATE ACREAGE 4,239.80

PH/VACEAST.EXB

EXHIBIT "C"

Attached hereto and made part of that certain Vacuum Glorieta East Unit Agreement dated
10th day of September, 1993 between PHILLIPS PETROLEUM
COMPANY as Operator and ARCO OIL AND GAS COMPANY, ET AL as Non-Operators.

SCHEDULE OF TRACT PARTICIPATION

TRACT No.	PHASE I	PHASE II	PHASE III	PHASE IV	PHASE V	PHASE VI
01	23.7003476%	20.8128998%	17.9254519%	15.0380040%	13.8830247%	12.1505559%
02	11.1892696%	10.1964913%	9.2037130%	8.2109348%	7.8138236%	7.2181567%
03	0.0034247%	0.1841824%	0.3649402%	0.5456978%	0.6180009%	0.7264555%
04	8.6013788%	7.3566770%	6.1119753%	4.8672736%	4.3693927%	3.6225717%
05	12.8585520%	11.1695769%	9.4806019%	7.7916269%	7.1160369%	6.1026519%
06	0.3273012%	0.4917118%	0.6561221%	0.8205326%	0.8862968%	0.9849430%
07	0.0067565%	0.3551260%	0.7034950%	1.0518641%	1.1912118%	1.4002333%
08	0.9523015%	0.9745562%	0.9968109%	1.0190656%	1.0279675%	1.0413203%
09	1.4564957%	1.6419901%	1.8274846%	2.0129791%	2.0871768%	2.1984735%
10	2.9957337%	3.0328776%	3.0700216%	3.1071655%	3.1220231%	3.1443095%
11	1.4955999%	2.1409205%	2.7862412%	3.4315618%	3.6896900%	4.0768824%
12	2.1735732%	2.2937148%	2.4138564%	2.5339980%	2.5820546%	2.6541395%
13	0.1123828%	0.5005758%	0.8887686%	1.2769615%	1.4322388%	1.6651543%
14	0.0036570%	0.1506457%	0.2976344%	0.4446231%	0.5034186%	0.5916118%
15	0.8980217%	1.1539274%	1.4098333%	1.6657391%	1.7681014%	1.9216449%
16	0.0085325%	0.3416873%	0.6748422%	1.0079967%	1.1412586%	1.3411514%
17	0.1115733%	0.5712266%	1.0308800%	1.4905334%	1.6743947%	1.9501868%
18	0.0008725%	0.0769757%	0.1530788%	0.2291820%	0.2596233%	0.3052852%
19	1.3318241%	1.6569792%	1.9821342%	2.3072894%	2.4373514%	2.6324444%
20	0.7248622%	0.7480660%	0.7712697%	0.7944735%	0.8037550%	0.8176773%
21	0.0020341%	0.1201707%	0.2383073%	0.3564440%	0.4036986%	0.4745806%
22	4.6149407%	4.1972036%	3.7794665%	3.3617294%	3.1946346%	2.9439923%
23	0.0069263%	0.3523775%	0.6978288%	1.0432801%	1.1814606%	1.3887313%
24	12.3432461%	10.2338718%	8.1244974%	6.0151231%	5.1713733%	3.9057488%
25	1.3601694%	1.9171015%	2.4740336%	3.0309657%	3.2537384%	3.5878978%

EXHIBIT "C"

Attached hereto and made part of that certain Vacuum Glorieta East Unit Agreement dated 10th day of September, 1993 between PHILLIPS PETROLEUM COMPANY as Operator and ARCO OIL AND GAS COMPANY, ET AL as Non-Operators.

SCHEDULE OF TRACT PARTICIPATION

TRACT No.	PHASE I	PHASE II	PHASE III	PHASE IV	PHASE V	PHASE VI
26	3.7630275%	3.9612371%	4.1594466%	4.3576563%	4.4369400%	4.5558658%
27	1.8923021%	2.5380413%	3.1837807%	3.8295199%	4.0878159%	4.4752593%
28	0.0003502%	0.0691265%	0.1379027%	0.2066789%	0.2341894%	0.2754551%
29	0.1552545%	0.3959700%	0.6366854%	0.8774009%	0.9736871%	1.1181164%
30	0.0697009%	0.2656600%	0.4616191%	0.6575783%	0.7359619%	0.8535373%
31	0.0018954%	0.1677137%	0.3335321%	0.4993504%	0.5656778%	0.6651688%
32	0.0282971%	0.1978421%	0.3673870%	0.5369320%	0.6047500%	0.7064770%
33	0.0267500%	0.1579545%	0.2891590%	0.4203635%	0.4728453%	0.5515681%
34	0.3582053%	0.6886389%	1.0190724%	1.3495059%	1.4816794%	1.6799395%
35	0.5908111%	0.9985711%	1.4063309%	1.8140907%	1.9771947%	2.2218507%
36	0.0981869%	0.3409583%	0.5837298%	0.8265012%	0.9236098%	1.0692726%
37	0.1642354%	0.7464510%	1.3286667%	1.9108824%	2.1437687%	2.4930982%
38	4.5619908%	4.1870449%	3.8120990%	3.4371532%	3.2871748%	3.0622073%
39	0.0597012%	0.2667365%	0.4737719%	0.6808073%	0.7636214%	0.8878426%
40	0.0911843%	0.3089168%	0.5266494%	0.7443819%	0.8314749%	0.9621144%
41	0.0930226%	0.3667924%	0.6405623%	0.9143321%	1.0238401%	1.1881020%
42	0.5119401%	0.6504507%	0.7889614%	0.9274721%	0.9828764%	1.0659828%
43	0.0421496%	0.1732134%	0.3042772%	0.4353410%	0.4877665%	0.5664048%
44	0.0024617%	0.1163340%	0.2302063%	0.3440786%	0.3896275%	0.4579509%
45	0.1993268%	0.3527337%	0.5061406%	0.6595474%	0.7209102%	0.8129543%
46	0.0048872%	0.1969618%	0.3890365%	0.5811111%	0.6579410%	0.7731858%
47	0.0045422%	0.1811181%	0.3576941%	0.5342701%	0.6049005%	0.7108462%