

Casa No.

749

---

Application, Transcript,  
Small Exhibits, Etc.

Case No.

749

---

Application, Transcript,  
Small Exhibits, Etc.

HUAPACHE UNIT

EXECUTED UNIT AGREEMENT

J. M. HERVEY 1874-1953  
HIRAM M. DOW  
CLARENCE E. HINKLE  
W. E. BONDURANT, JR.  
GEORGE H. HUNKER, JR.  
WILLIAM C. SCHAUER  
HOWARD C. BRATTON  
S. B. CHRISTY IV

749  
11/10/54  
LAW OFFICES  
HERVEY, DOW & HINKLE  
FIRST NATIONAL BANK BUILDING  
ROSWELL, NEW MEXICO

9:03  
October 4, 1954

TELEPHONE 2160  
L. O. 3

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Gentlemen:

We enclose herewith a fully executed and approved copy of the Unit Agreement for the Operation and Development of the Huapache Unit Area, Eddy County, New Mexico. This agreement is dated July 1, 1954 and was approved by the Conservation Commission on July 15, 1954, by the Commissioner of Public Lands on August 2, 1954 and by the Director of the U.S.G.S. on September 23, 1954. This copy of the unit agreement is filed in compliance with your order requiring that a copy be filed with the Commission within 30 days after the effective date of the unit.

Yours very truly,

HERVEY, DOW & HINKLE

By Clarence E. Hinkle mp

CEH:mp  
Encl.

cc - R. M. Richardson  
Humble Oil & Refining Company  
Roswell, New Mexico



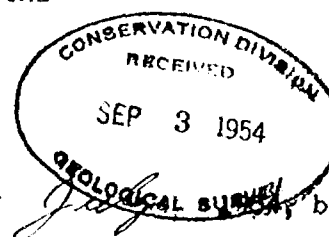
RECEIVED

AUG 23 1954

U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

UNIT AGREEMENT  
FOR THE DEVELOPMENT AND OPERATION OF THE  
HUAPACHE UNIT AREA  
EDDY COUNTY, NEW MEXICO

14-08-001-1668  
No. \_\_\_\_\_



THIS AGREEMENT, entered into as of the 22 day of July, 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 or gas interests in the unit area subject to this agreement; and

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended by the  
Act of August 8, 1946, 60 Stat. 950, 30 U.S.C. Secs. 181 et seq., authorizes  
Federal lessees and their representatives to unite with each other, or jointly  
or separately with others, in collectively adopting and operating under a  
cooperative or unit plan of development or operation of any oil or gas pool,  
field, or like area, or any part thereof, for the purpose of more properly  
conserving the natural resources thereof whenever determined and certified by  
the Secretary of the Interior to be necessary or advisable in the public  
interest; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico  
is authorized by an Act of the Legislature (Chap. 88, Laws 1943) to consent  
to or approve this agreement on behalf of the State of New Mexico, insofar as  
it covers and includes lands and mineral interests of the State of New Mexico; and

WHEREAS, the Oil Conservation Commission of the State of New Mexico is  
authorized by law (Chap. 72, Laws of 1935, as amended by Chap. 193, Laws of  
1937, Chap. 166, Laws of 1941, and Chap. 168, Laws of 1949) to approve this  
agreement, and the conservation provisions hereof; and

WHEREAS, the parties hereto hold sufficient interests in the Huapache  
Unit Area covering the land hereinafter described to give reasonably effective  
control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve natural  
resources, prevent waste, and secure other benefits obtainable through develop-  
ment 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 below defined unit area, and agree severally among themselves as follows:

1. ENABLING ACT AND REGULATIONS. The Act of February 25, 1920, as amended, supra, and all valid pertinent regulations, including operating and unit plan regulations, heretofore issued thereunder or valid pertinent and reasonable regulations hereafter issued thereunder are accepted and made a part of this agreement as to Federal lands, provided such regulations are not inconsistent with the terms of this agreement; and as to non-Federal lands, 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 in which the non-Federal land is located, are hereby accepted and made a part of this agreement.

2. UNIT AREA: The following described land is hereby designated and recognized as constituting the unit area:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

T. 23 S., R. 22 E.

Secs. 1, 2, 3, 4, 5: All  
 Sec. 6: Lots 1, 2, 3, 4,  $E\frac{1}{2}$ ,  $E\frac{1}{2}W\frac{1}{2}$  (All)  
 Secs. 8, 9, 10, 11, 12: All  
 Sec. 13: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
 Sec. 14: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
 Sec. 15: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
 Secs. 16 and 17: All  
 Sec. 21: Lots 1, 2, 3, 4,  $W\frac{1}{2}$ ,  $W\frac{1}{2}E\frac{1}{2}$  (All)  
 Secs. 22, 23, 24, 25, 26, 27: All  
 Sec. 28: Lots 1, 2, 3, 4,  $W\frac{1}{2}$ ,  $W\frac{1}{2}E\frac{1}{2}$  (All)  
 Sec. 33: Lots 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,  $W\frac{1}{2}NE\frac{1}{4}$ ,  $NE\frac{1}{4}NW\frac{1}{4}$ ,  $W\frac{1}{2}NW\frac{1}{4}$  (All)  
 Sec. 34: Lots 1, 2, 3, 4, 5, 6, 7,  $E\frac{1}{2}$ ,  $NW\frac{1}{4}$ ,  $E\frac{1}{2}SW\frac{1}{4}$  (All)  
 Secs. 35 and 36: All

T. 24 S., R. 22 E.

Sec. 1: Lots 1, 2, 3, 4, 5, 6, 7,  $SW\frac{1}{4}$ ,  $W\frac{1}{2}SE\frac{1}{4}$ ,  $SW\frac{1}{4}NE\frac{1}{4}$ ,  $S\frac{1}{2}NW\frac{1}{4}$  (All)  
 Sec. 2: Lots 1, 2, 3, 4,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
 Sec. 3: Lots 1, 2, 3, 5, 6,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
 Sec. 4: Lots 1, 2, 3, 4,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
 Sec. 9:  $NE\frac{1}{4}$   
 Secs. 10 and 11: All  
 Sec. 12: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
 Sec. 13: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
 Sec. 14: All  
 Sec. 15:  $NE\frac{1}{4}$   
 Sec. 23:  $E\frac{1}{2}$   
 Sec. 24: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
 Sec. 25: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
 Sec. 36: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)

T. 23 S., R. 23 E.

Sec. 19: Lots 3, 4, E $\frac{1}{2}$ SW $\frac{1}{4}$   
Sec. 30: Lots 1, 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$   
Sec. 31: Lots 1, 2, 3, 4, 5, E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$

T. 24 S., R. 23 E.

Sec. 5: Lots 1, 2, 3, 4, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$  (All)  
Sec. 6: Lots 1, 2, 3, 4, 5, 6, 7, SE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ ,  
SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$  (All)  
Sec. 7: Lots 1, 2, 5, 6, 7, E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$  (All)  
Sec. 8: All  
Secs. 16 and 17: All  
Sec. 18: Lots 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$  (All)  
Sec. 19: Lots 1, 2, 3, 4, E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$  (All)  
Secs. 20 and 21: All  
Sec. 22: W $\frac{1}{2}$   
Secs. 27, 28, 29: All  
Sec. 30: Lots 1, 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$  (All)  
Sec. 31: Lots 1, 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$  (All)  
Secs. 32, 33, 34: All

Situated in Eddy County, New Mexico, containing 38,657.59 acres, more or less.

Exhibit "A" attached hereto is a map showing the unit area and the boundaries and identity of tracts and leases in said area to the extent known to the Unit Operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the Unit Operator the acreage, percentage, and kind of ownership of oil and gas interests in all land in the unit area. 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 or interests as are shown in said map or schedule as owned by such party. Exhibits "A" and "B" shall be revised by the Unit Operator whenever changes in the unit area render such revision necessary, or when requested by the Oil and Gas Supervisor, hereinafter referred to as "Supervisor", or the Commissioner of Public Lands, hereinafter referred to as "Commissioner", and not less than six copies of the revised exhibits shall be filed with the Supervisor, and at least one copy shall be filed with the Commissioner and one copy with the New Mexico Oil Conservation Commission, hereinafter referred to as "Commission".

The above described unit area shall when practicable be expanded to include therein any additional tract or tracts regarded as reasonably necessary or advisable for the purpose of this agreement, or shall be contracted to exclude lands not within any participating area whenever such expansion or contraction is necessary or advisable to conform with the purposes of this agreement. Such expansion or contraction shall be effected in the following manner:

(a) Unit Operator, on its own motion or on demand of the Director of the Geological Survey, hereinafter referred to as "Director", or on demand of the Commissioner shall prepare a notice of proposed expansion or contraction describing the contemplated changes in the boundaries of the unit area, the reasons therefor, and the proposed effective date thereof.

(b) Said notice shall be delivered to the Supervisor and the Commissioner and copies thereof mailed to the last known address of each working interest owner, lessee, and lessor whose interests are affected, advising that 30 days will be allowed for submission to the Unit Operator of any objections.

(c) Upon expiration of the 30-day period provided in the preceding item (b) hereof, Unit Operator shall file with the Supervisor and Commissioner evidence of mailing of the notice of expansion or contraction and a copy of any objections thereto which have been filed with the Unit Operator.

(d) After due consideration of all pertinent information, the expansion or contraction shall, upon approval by the Director, and Commissioner, become effective as of the date prescribed in the notice thereof.

2(e) AUTOMATIC ELIMINATION: All legal subdivisions of lands, no parts of which are within a participating area within 5 years after the first of month following approval of the initial participating area established under this unit agreement, shall be eliminated automatically from this agreement, and such lands shall no longer be a part of the unit area and shall no longer be subject to this agreement, unless, at the expiration of said 5-year period, diligent drilling operations are in progress on nonparticipating lands, in which event all such lands shall remain subject hereto for so long as such drilling operations are continued diligently, with not more than 90 days' time elapsing between the completion of one such well and the commencement of the next such well; provided that all lands not in a participating area and not entitled to become participating under other applicable provisions of this agreement by virtue of a completed well within 10 years after said first of month following approval of said initial participating area shall be eliminated as above specified. All lands proved productive by such diligent drilling after said 5-year period shall become participating as effectively and in the same manner as during the primary term of

the unit agreement. However, when such diligent drilling ceases, all lands not entitled to participation shall be eliminated, effective as of the 91st day thereafter. Inasmuch as any elimination under this subsection is automatic, the unit operator shall, within 90 days after the effective date of any elimination hereunder, describe the area so eliminated to the satisfaction of the Director and promptly notify all parties in interest.

If conditions beyond the control of the unit operator require modification of the provisions of this subsection 2(e), such modification, if filed no later than 60 days in advance of the time limit of any provisions specified in this subsection, may be accomplished by consent of the owners of 90 percent of the current, unitized working interest and 60 percent of the royalty and record interests, respectively, with approval of the Director.

If lands eliminated under this subsection 2(e) are subsequently determined to be a logical part of this unit area, the provisions of section 2 of this agreement shall become applicable. However, re-inclusion in the unit area of such lands shall not be considered automatic commitment or recommitment thereof.

All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement".

3. UNITIZED SUBSTANCES: All oil and gas in any and all formations of the unitized land are unitized under the terms of this agreement and herein are called "unitized substances".

4. UNIT OPERATOR: Humble Oil & Refining Company, a corporation, with offices at Houston, Texas, is hereby designated as Unit Operator and by signature hereto as Unit Operator agrees and consents to accept the duties and obligations of Unit Operator for the discovery, 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 interests in unitized substances, and the term "working interest owner" when used herein shall include or refer to Unit Operator as the owner of a working interest when such an interest is owned by it.

5. RESIGNATION OR REMOVAL OF UNIT OPERATOR. Unit Operator shall have the right to resign at any time prior to the establishment of a participating

area or areas hereunder, 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 6 months after notice of intention to resign has been served by Unit Operator on all working interest owners, the Director, and Commissioner, and until all wells then drilled hereunder are placed in a satisfactory condition for suspension or abandonment whichever is required by the Supervisor as to Federal lands and the Commission as to State and privately-owned lands, unless a new Unit Operator shall have been selected and approved and shall have taken over and assumed the duties and obligations of Unit Operator prior to the expiration of said period. Unit Operator shall have the right to resign in like manner and subject to like limitations as above provided at any time a participating area established hereunder is in existence, but until a successor Unit Operator is selected and approved as hereinafter provided, the working interest owners shall be jointly responsible for performance of the duties of Unit Operator, and shall not later than 30 days before such resignation becomes effective appoint a common agent to represent them in any action to be taken hereunder.

The resignation of Unit Operator shall not release Unit Operator from any liability for any default by it hereunder occurring prior to the effective date of its resignation.

The Unit Operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests determined in like manner as herein provided for the selection of a new Unit Operator. Such removal shall be effective upon notice thereof to the Director and Commissioner.

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, materials, and appurtenances used in conducting the unit operations and owned by the working interest owners to the new duly qualified successor Unit Operator or to the owners thereof 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 and appurtenances needed for the preservation of any wells.

6. SUCCESSOR UNIT OPERATOR. Whenever the Unit Operator shall tender his or its resignation as Unit Operator or shall be removed as hereinabove provided, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or, until a participating area shall have been established, the owners of the working interests according to their respective acreage interests in all unitized land, shall by majority vote select a successor Unit Operator; provided, that if a majority but less than 75 percent of the working interest qualified to vote are owned by one party to this agreement, a concurring vote of one or more additional working interest owners shall be required to select a new operator. Such selection 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 Director and Commissioner. If no successor Unit Operator is selected and qualified as herein provided, the Director and Commissioner at their election may declare this unit agreement terminated.

7. ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT. If the Unit Operator is not the sole owner of working interests, costs and expenses incurred by Unit Operator in conducting unit operations hereunder shall be paid and apportioned among and borne by the owners of working interests, all in accordance with the agreement or agreements entered into by and between the Unit Operator and the owners of working interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the Unit Operator as provided in this section, whether one or more, are herein referred to as 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 independent contracts and such other rights and obligations as

between Unit Operator and the working interest owners as may be agreed upon by 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 unit agreement, and in case of any inconsistency or conflict between the unit agreement and the unit operating agreement this unit agreement shall prevail. Three true copies of any unit operating agreement executed pursuant to this section shall be filed with the Supervisor, and one true copy with the Commissioner.

8. 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. 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.

9. DRILLING TO DISCOVERY. Within six months after the effective date hereof, the Unit Operator shall begin to drill an adequate test well at a location approved by the Supervisor, if such location is upon lands of the United States, and if upon State or privately owned lands, such location shall be approved by the Commission or Commissioner whichever is appropriate, unless on such effective date a well is being drilled conformably with the terms hereof, and thereafter continue such drilling diligently until all formations to the top of the basement complex have been tested or until at a lesser depth unitized substances shall be discovered which can be produced in paying quantities (to-wit: quantities sufficient to repay the costs of drilling and producing operations, with a



reasonable profit) or the Unit Operator shall at any time establish to the satisfaction of the Supervisor that further drilling of said well would be unwarranted or impracticable, provided, however, that Unit Operator shall not in any event be required to drill said well to a depth in excess of 11,000 feet. Until the discovery of a deposit of unitized substances capable of being produced in paying quantities, the Unit Operator shall continue drilling diligently one well at a time, allowing not more than six months between the completion of one well and the beginning of the next well, until a well capable of producing unitized substances in paying quantities is completed to the satisfaction of said Supervisor if on Federal land, or the Commissioner if on State land or the Commission if on privately owned land, or until it is reasonably proved that the unitized land is incapable of producing unitized substances in paying quantities in the formation drilled hereunder. Nothing in this Section shall be deemed to limit the right of the Unit Operator to resign as provided in Section 5 hereof, or as requiring Unit Operator to commence or to continue any drilling during the period pending such resignation becoming effective in order to comply with the requirements of this Section. The Director and the Commissioner may modify the drilling requirements of this Section by granting reasonable extensions of time, when, in their opinion, such action is warranted.

Upon failure to comply with the drilling provisions of this Section, the Director and the Commissioner may, after reasonable notice to the Unit Operator and each working interest owner, lessee and lessor at their last known addresses, declare this unit agreement terminated.

10. PLAN OF FURTHER DEVELOPMENT AND OPERATION. Within 6 months after completion of a well capable of producing unitized substances in paying quantities, the Unit Operator shall submit for the approval of the Supervisor, the Commissioner, and the Commission, an acceptable plan of development and operation for the unitized land which, when approved by the Supervisor, the Commissioner, and the Commission, shall constitute the further drilling and operating obligations of the Unit Operator under this agreement for the period specified therein. Thereafter, from time to time before the expiration of any existing plan, the Unit Operator shall submit for the approval of the Supervisor, the Commissioner and the Commission, a plan

for an additional specified period for the development and operation of the unitized land. Any plan submitted pursuant to this section shall provide for the exploration of the unitized area and for the determination of the area or areas thereof capable of producing unitized substances in paying quantities in each and every productive formation and shall be as complete and adequate as the Supervisor, the Commissioner and the Commission, may determine to be necessary for timely development and proper conservation of the oil and gas resources of the unitized area and shall (a) specify the number and location of any wells to be drilled and the proposed order and time for such drilling; and (b) to the extent practicable specify the operating practices regarded as necessary and advisable for proper conservation of natural resources. Separate plans may be submitted for separate productive zones, subject to the approval of the Supervisor, the Commissioner and the Commission. Such plan or plans shall be modified or supplemented when necessary to meet changed conditions or to protect the interests of all parties to this agreement. Reasonable diligence shall be exercised in complying with the obligations of this approved plan of development. The Supervisor and the Commissioner are authorized to grant a reasonable extension of the 6-month period herein prescribed for submission of an initial plan of development where such action is justified because of unusual conditions or circumstances. After completion hereunder of a well capable of producing any unitized substances in paying quantities no further wells, except such as may be necessary to afford protection against operations not under this agreement or such as may be specifically approved by the Supervisor and Commission shall be drilled except in accordance with a plan of development approved as herein provided.

11. PARTICIPATION AFTER DISCOVERY. Upon completion of a well capable of producing unitized substances in paying quantities or as soon thereafter as required by the Supervisor or the Commissioner, the Unit Operator shall submit for approval by the Director, the Commissioner and the Commission, a schedule, based on subdivisions of the public-land survey or aliquot parts thereof, of all unitized land then regarded as reasonably proved to be productive of unitized substances in paying quantities; all land in said schedule on approval of the

Director, the Commissioner and the Commission to constitute a participating area, effective as of the date of first production. Said schedule also shall set forth the percentage of unitized substances to be allocated as herein provided to each unitized tract in the participating area so established, and shall govern the allocation of production from and after the date the participating area becomes effective. A separate participating area shall be established in like manner for each separate pool or deposit of unitized substances or for any group thereof produced as a single pool or zone, and any two or more participating areas so established may be combined into one with the consent of the owners of all working interests in the lands within the participating areas so to be combined, on approval of the Director, the Commissioner and the Commission. The participating area or areas so established shall be revised from time to time, subject to like approval, whenever such action appears proper as a result of further drilling operations or otherwise, to include additional land then regarded as reasonably proved to be productive in paying quantities, and the percentage of allocation shall also be revised accordingly. The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated, unless a more appropriate effective date is specified in the schedule. No land shall be excluded from a participating area on account of depletion of the unitized substances.

It is the intent of this section that a participating area shall represent the area known or reasonably estimated to be productive in paying quantities; but regardless of any revision of the participating area, nothing herein contained shall be construed as requiring any retroactive adjustment for production obtained prior to the effective date or revision of the participating area.

In the absence of agreement at any time between the Unit Operator and the Director, the Commissioner and the Commission as to the proper definition or redefinition of a participating area, or until a participating area has, or areas have, been established as provided herein, the portion of all payments affected thereby may be impounded in a manner mutually acceptable to the owners of working interests, except royalties due the United States and the State of New Mexico, which shall be determined by the Supervisor and the Commissioner, respectively,

and the amount thereof deposited as directed by the Supervisor and Commissioner, to be held as unearned money until a participating area is finally approved and then applied as earned or returned in accordance with a determination of the sum due as Federal and State royalty on the basis of such approved participating area.

Whenever it is determined, subject to the approval of the Supervisor, as to wells on Federal land, and Commissioner as to wells on State land, and the Commission as to wells on privately-owned land, that a well drilled under this agreement is not capable of production in paying quantities and inclusion of the land on which it is situated in a participating area is unwarranted, production from such well shall, for the purposes of settlement among all parties other than working interest owners, be allocated to the land on which the well is located so long as such land is not within a participating area established for the pool or deposit from which such production is obtained. Settlement for working interest benefits from such a well shall be made as provided in the unit operating agreement.

12. ALLOCATION OF PRODUCTION. All unitized substances produced from each participating area established under this agreement, except any part thereof used in conformity with good operating practices within the unitized area for drilling, operating, camp and other production or development purposes, for repressuring or recycling in accordance with a plan of development approved by the Supervisor, Commissioner and the Commission, or unavoidably lost, shall be deemed to be produced equally on an acreage basis from the several tracts of unitized land of the participating area established for such production and, for the purpose of determining any benefits accruing under this agreement each such tract of unitized land shall have allocated to it such percentage of said production as the number of acres of such tract included in said participating area bears to the total number of acres of unitized land in said participating area except that allocation of production hereunder for purposes other than for settlement of the royalty, overriding royalty, or payment out of production obligations of the respective working interest owners, shall be on the basis prescribed in the unit operating agreement whether in conformity with the basis of allocation herein set forth or otherwise. It is hereby agreed that production

of unitized substances from a participating area shall be allocated as provided herein regardless of whether any wells are drilled on any particular part or tract of said participating area. If any gas produced from one participating area is used for repressuring or recycling purposes in another participating area, the first gas withdrawn from such last mentioned participating area for sale during the life of this agreement shall be considered to be the gas so transferred until an amount equal to that transferred shall be so produced for sale and such gas shall be allocated to the participating area from which initially produced as constituted at the time of such final production.

13. DEVELOPMENT OR OPERATION OF NON-PARTICIPATING LAND OR FORMATIONS.

Any party hereto owning or controlling the working interest in any unitized land having thereon a regular well location may with the approval of the Supervisor as to Federal land, the Commissioner as to State land, and the Commission as to privately owned land, at such party's sole risk, cost and expense, drill a well to test any formation for which a participating area has not been established if such location is not within said participating area, unless within 90 days of receipt of notice from said party of his intention to drill the well the Unit Operator elects and commences to drill such well in like manner as other wells are drilled by the Unit Operator under this agreement.

If any well drilled as aforesaid by a working interest owner results in production such that the land upon which it is situated may properly be included in a participating area, such participating area shall be established or enlarged as provided in this agreement and the well shall thereafter be operated by Unit Operator in accordance with the terms of this agreement and the unit operating agreement.

If any well drilled as aforesaid by a working interest owner obtains production in quantities insufficient to justify the inclusion in a participating area of the land upon which such well is situated, such well may be operated and produced by the party drilling the same subject to the conservation requirements of this agreement. The royalties in amount or value of production from any such well shall be paid as specified in the underlying lease and agreements affected.

14. ROYALTY SETTLEMENT. The United States and the State of New Mexico and all royalty owners who, under existing contract, are entitled to take in kind a share of the substances now unitized hereunder produced from any tract, shall hereafter be entitled to the right to take in kind their share of the unitized substances allocated to such tract, and Unit Operator, or in case of the operation of a well by a working interest owner as herein in special cases provided for, such working interest owner shall make deliveries of such royalty share taken in kind in conformity with the applicable contracts, law and regulation. Settlement for royalty interests not taken in kind shall be made by working interest owners responsible therefor 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 royalties due under their leases.

If gas obtained from lands not subject to this agreement is introduced into any participating area hereunder, for use in repressuring, stimulation or production, or increasing ultimate recovery, which shall be in conformity with a plan first approved by the Supervisor, the Commissioner and the Commission, a like amount of gas, after settlement as herein provided for any gas transferred from any other participating area, and with due allowance for loss or depletion from any cause, may be withdrawn from the formation into which the gas was introduced, royalty free as to dry gas, but not as to the products extracted therefrom; provided, that such withdrawal shall be at such time as may be provided in the plan of operations or as may otherwise be consented to by the Supervisor, the Commissioner and the Commission as conforming to good petroleum engineering practice, and provided further, that such right of withdrawal shall terminate on the termination of this unit agreement.

Royalty due the United States shall be computed as provided in the operating regulations and paid in value or delivered in kind as to all unitized substances on the basis of the amounts thereof allocated to unitized Federal land as provided herein at the rates specified in the respective Federal leases, or at such lower rate or rates as may be authorized by law or regulation; provided,

that for leases on which the royalty rate depends on the daily average production per well, said average production shall be determined in accordance with the operating regulations as though each participating area were a single consolidated lease.

Royalty due on account of State and privately owned lands shall be computed and paid on the basis of all unitized substances allocated to such lands.

15. RENTAL SETTLEMENT. Rentals or minimum royalties due on 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 or minimum royalty for lands of the United States subject to this agreement shall be paid at the rate specified in the respective leases from the United States, unless such rental or minimum royalty is waived, suspended or reduced by law or by approval of the Secretary or his duly authorized representative.

With respect to any lease on non-Federal land containing provisions which would terminate such lease unless drilling operations were within the time therein specified commenced upon the land covered thereby or rentals paid for the privilege of deferring such drilling operations, the rentals required thereby shall, notwithstanding any other provision of this agreement, be deemed to accrue and become payable during the term thereof as extended by this agreement, and until the required drilling operations are commenced upon the land covered thereby or some portion of such land is included within a participating area.

16. RIGHTS OF WORKING INTEREST OWNERS IN UNITIZED SUBSTANCES. Notwithstanding any provision contained herein to the contrary, if any, each working interest owner shall have the right to take such owner's proportionate share of the unitized substances in kind or to personally sell or dispose of the same, and nothing herein contained shall be construed as giving or granting to the Unit Operator the right to sell or otherwise dispose of the proportionate share of any working interest owner without specific authorization from time to time so to do.

Any working interest owner who takes its share of the unitized substances in kind shall pay or secure the payment of the royalty on its interest and furnish at its own expense all tankage and other equipment necessary for taking said unitized substances in kind and shall also pay any other additional expenses of Unit Operator occasioned thereby. Likewise, any royalty owners who under existing contracts are entitled to take their share of the unitized substances in kind shall furnish at their own expense all equipment necessary in connection therewith, and shall reimburse Unit Operator for all expenses incurred on account thereof; provided, that as to Federal lands such expense, equipment and storage of royalty oil taken in kind shall be assumed and furnished pursuant to the provisions of the Federal leases involved.

17. 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 or pursuant to State or Federal law or regulations.

18. DRAINAGE. The Unit Operator shall take appropriate and adequate measures to prevent drainage of unitized substances from unitized land by wells on land not subject to this agreement or pursuant to applicable regulations pay a fair and reasonable compensatory royalty as determined by the Supervisor for Federal land, or as approved by the Commissioner as to State land, or as determined by agreement between the Unit Operator and the royalty owner as to fee land.

19. 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 of 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 Secretary and the Commissioner, respectively, shall and by their approval hereof, or by the approval hereof by their duly authorized representatives do hereby establish, alter, change or revoke the drilling, producing, rental, minimum royalty, and royalty requirements of Federal and State leases committed hereto and the regulations in respect thereto to conform said requirements to the provisions of this



agreement, and, 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 any lease, operating agreement or other contract by and between the parties hereto, or their respective predecessors in interest, or any of them.

(b) Drilling and producing operations performed hereunder upon any tract of unitized lands will be accepted and deemed to be performed upon and for the benefit of each and every tract of unitized land, and no Federal or State 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 lands pursuant to direction or consent of the Secretary and Commissioner, 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 or gas of lands other than those of the United States and the State of New Mexico committed to this agreement 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 term of this agreement; provided, however, each such lease, sublease or contract shall only be extended in the event unitized substances are capable of being produced from some part of the lands embraced in such lease committed to this agreement, or some part of said lands are committed to a participating area prior to the expiration of the primary term of such lease, sublease or contract. Termination of this agreement shall not affect any lease which pursuant to the terms thereof or applicable law shall continue in full force and effect thereafter.

(e) Any Federal lease for a fixed term of twenty (20) years or any renewal thereof or any part of such lease which is made subject to this agreement shall continue in force beyond the term provided therein until the termination hereof. Any other Federal lease committed hereto shall continue in force beyond the term so provided therein or by law as to the committed land so long as such land remains committed hereto, provided unitized substances are discovered in paying quantities within the unit area prior to the expiration date of the primary term of such lease. (Provided, however, if permitted by any applicable law or valid regulation now or hereafter in effect, notwithstanding the foregoing, such other Federal lease committed hereto shall continue in force beyond the term so provided therein so long as such land remains committed hereto, provided unitized substances are discovered in paying quantities within the unit area prior to the expiration date of such lease or any extension thereof.)

(f) Each sublease or contract relating to the operation and development of unitized substances from lands of the United States committed to this agreement, which by its terms would expire prior to the time at which the underlying lease, as extended by the immediately preceding paragraph, will expire, 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 term of the underlying lease as such term is herein extended.

(g) Any lease embracing lands of the State of New Mexico, which is made subject to this agreement, shall continue in force beyond the term provided therein as to the lands committed hereto until the termination hereof.

(h) Any lease having only a portion of its lands committed hereto shall be segregated as to the portion committed and the portion not committed, and the terms of such lease shall apply separately to such segregated portions commencing as of the effective date hereof. In the event any such lease provides for a lump-sum rental payment, such payment shall be prorated between the portions so segregated in proportion to the acreage of the respective tracts. Provided, however, notwithstanding any of the provisions of this agreement to the contrary, any lease embracing lands of the State of New Mexico having only a portion of its

lands committed hereto shall continue in full force and effect beyond the term provided therein as to all lands embraced in such lease, if unitized substances are discovered and are capable of being produced in paying quantities from some part of the lands embraced in such lease committed to this agreement at the expiration of the secondary term of such lease; or if, at the expiration of the secondary term, the lessee or the Unit Operator is then engaged in bona fide drilling or reworking operations on some part of the lands embraced in such lease, the same as to all lands embraced therein shall remain in full force and effect so long as such operations are being diligently prosecuted, and if they result in the production of unitized substances, said lease shall continue in full force and effect as to all of the lands embraced therein, so long thereafter as unitized substances in paying quantities are being produced from any portion of said lands.

20. COVENANTS RUN WITH LAND. The covenants herein shall be construed to be covenants running with the land with respect to the interest 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, royalty, or other 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, photostatic, or certified copy of the instrument of transfer.

21. EFFECTIVE DATE AND TERM. This agreement shall become effective upon approval by the Secretary or his duly authorized representative, the Commissioner and Commission, and shall terminate five years after such date unless (a) such date of expiration is extended by the Director and Commissioner, or (b) it is reasonably determined prior to the expiration of the fixed term or any extension thereof that the unitized land is incapable of production of unitized substances in paying quantities in the formation tested hereunder and after notice of intention to terminate the agreement on such ground is given by the Unit Operator to

all parties in interest at their last known addresses, the agreement is terminated with the approval of the Director and Commissioner, or (c) a valuable discovery of unitized substances has been made on unitized land during said initial term or any extension thereof, in which event the agreement shall remain in effect for such term and so long as unitized substances can be produced in paying quantities, i.e., in this particular instance in quantities sufficient to pay for the cost of producing the same from wells on unitized land within any participating area established hereunder, and should production cease, so long thereafter as diligent operations are in progress for the restoration of production or discovery of new production and so long thereafter as the unitized substances so discovered can be produced as aforesaid, or (d) it is terminated as heretofore provided in this agreement.

This agreement may be terminated at any time by not less than 75 per centum, on an acreage basis, of the owners of working interests signatory hereto, with the approval of the Director, Commissioner and Commission; notice of any such approval to be given by the Unit Operator to all parties hereto.

22. RATE OF PROSPECTING, DEVELOPMENT AND PRODUCTION. The Director is hereby vested with authority to alter or modify from time to time, in his discretion, the quantity and rate of production under this agreement, when such quantity and rate is not fixed pursuant to Federal or State law or does not conform to any state-wide voluntary conservation of allocation program, which is established, recognized and generally adhered to by the majority of operators in such State, such authority being hereby limited to alteration or modification in the public interest, the purpose thereof and the public interest to be served thereby to be stated in the order of alteration or modification. Without regard to the foregoing, the Director is also hereby vested with authority to alter or modify from time to time in his discretion the rate of prospecting and development and the quantity and rate of production under this agreement when such alteration or modification is in the interest of attaining the conservation objectives stated in this agreement and is not in violation of any applicable Federal or State law; provided, however, that no such alteration or modification shall be

effective as to any land of the State of New Mexico as to the rate of prospecting and development in the absence of the specific written approval thereof by the Commissioner and as to any lands of the State of New Mexico or privately-owned lands subject to this agreement as to the quantity and rate of production in the absence of specific written approval thereof by the Commission.

Powers in this Section vested in the Director shall only be exercised after notice to Unit Operator and opportunity for hearing to be held not less than 15 days from notice.

23. CONFLICT OF SUPERVISION. Neither Unit Operator nor the working interest owners nor any of them shall be subject to any forfeiture, termination or expiration of any rights hereunder or under any leases or contracts subject hereto, or to any penalty or liability on account of delay or failure in whole or in part to comply with any applicable provision thereof to the extent that the said Unit Operator, working interest owners or any of them are hindered, delayed, or prevented from complying therewith by reason of failure of the Unit Operator to obtain, in the exercise of due diligence, the concurrence of proper representatives of the United States and proper representatives of the State of New Mexico in and about any matters or thing concerning which it is required herein that such concurrence be obtained.

24. APPEARANCES. Unit Operator shall, after notice to other parties affected, have the right to appear for or on behalf of any and all interests affected hereby before the Department of the Interior, the Commissioner of Public Lands and the New Mexico Oil Conservation Commission and to appeal from orders issued under the regulations of said Department, the Commissioner or Commission, or to apply for relief from any of said regulations or in any proceedings relative to operations before the Department of the Interior, the Commissioner or Commission, or any other legally constituted authority; provided, however, that any other interested party shall also have the right at his own expense to be heard in any such proceeding.

25. NOTICES. All notices, demands or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given in writing and personally delivered to the party or sent by postpaid registered 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 may have furnished in writing to party sending the notice, demand or statement.

26. 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 wherein said unitized lands are located, or of the United States, 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.

27. UNAVOIDABLE DELAY. All obligations under this agreement requiring the Unit Operator to commence or continue drilling or to operate on or produce unitized substances from any of the lands covered by this agreement shall be suspended while, but only so long as the Unit Operator despite the exercise of due care and diligence is prevented from complying with such obligations, in whole or in part, by strikes, acts of God, Federal, State or Municipal law or agencies, unavoidable accident, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the Unit Operator whether similar to matters herein enumerated or not.

28. FAIR EMPLOYMENT. The Unit Operator shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin, and an identical provision shall be incorporated in all sub-contracts.

29. LOSS OF TITLE. In the event title to any tract of unitized land shall fail and the true owner cannot be induced to join this unit agreement, such tract shall be automatically regarded as not committed hereto and there shall be such readjustment of future costs and benefits as may be required on account of the loss of such title. In the event of a dispute as to title as to any royalty,

working interest, or other interests subject thereto, payment or delivery on account thereof may be withheld without liability for interest until the dispute is finally settled; provided, that as to Federal and State land or leases, no payments of funds due the United States or the State of New Mexico should be withheld, but such funds shall be deposited as directed by the Supervisor, and with the Commissioner of Public Lands of the State of New Mexico, 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.

30. NON-JOINDER AND SUBSEQUENT JOINDER. If the owner of any substantial interest in a tract within the unit area fails or refuses to subscribe or consent to this agreement, the owner of the working interest in that tract may withdraw said tract from this agreement by written notice to the Director, Commissioner and the Unit Operator prior to the approval of this agreement by the Director. Any oil or gas interests in lands within the unit area not committed hereto prior to submission of this agreement for final approval may thereafter be committed hereto by the owner or owners thereof subscribing or consenting to this agreement, and if the interest is a working interest, by the owner of such interest also subscribing to the unit operating agreement. After operations are commenced hereunder, the right of subsequent joinder, as provided for in this section, by a working interest owner is subject to such requirements or approvals, if any, pertaining to such joinder, as may be provided for in the unit operating agreement. After final approval hereof joinder by a non-working interest owner may be consented to in writing by the working interest owner committed hereto and responsible for the payment of any benefits that may accrue hereunder in behalf of such non-working interest. Prior to final approval hereof, joinder by any owner of a non-working interest must be accompanied by appropriate joinder by the owner of the corresponding working interest in order for the interest to be regarded as effectively committed hereto. Except as may otherwise herein be provided, subsequent joinders to this agreement shall be effective as of the first day of the month following the filing

with the Supervisor, the Commissioner and the Commission of duly executed counterparts of all or any papers necessary to establish effective commitment of any tract to this agreement unless objection to such joinder is duly made within 60 days by the Director, Commissioner or Commission.

31. COUNTERPARTS. This agreement may be executed in any number of counterparts no one of which needs to be executed by all parties or 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 such 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.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed and have set opposite their respective names the date of execution.

Form Approved

By W. A. Maley  
TRADE O K  
W. A. MALEY

By W. A. Maley

ATTEST:

B. P. Barntt  
Assistant Secretary

HUMBLE OIL & REFINING COMPANY,  
a corporation

By David A. Hume  
VICE PRESIDENT

Date July 12, 1954

Address \_\_\_\_\_  
P. O. BOX 2180  
HOUSTON, TEXAS

UNIT OPERATOR AND WORKING  
INTEREST OWNER



ATTEST:

H. W. Clark  
Asst Secretary H. W. Clark

Date July 27, 1954

ATTEST:

D. B. Wise  
Secretary

Date Aug 3, 1954

ATTEST:

\_\_\_\_\_  
Secretary

Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

Date \_\_\_\_\_

MAGNOLIA PETROLEUM COMPANY

By R. C. Chan  
Vice-President

Address Bol 400  
Dallas, Texas

AMERICAN REPUBLICS CORPORATION

By Am. H. Smith  
EXEC. VICE PRESIDENT

Address PETROLEUM BLDG.  
Houston, Texas

APPROVED	
Legal	<u>W. H. F.</u>
Gen.	<u>W. H. F.</u>
Fin. & Inv.	<u>W. H. F.</u>
Eng.	<u>W. H. F.</u>
Gas	<u>W. H. F.</u>
Prod.	<u>W. H. F.</u>
Trans.	<u>W. H. F.</u>

WORKING INTEREST OWNERS

John B. Connally

Manell B. Connally

Address: 53 Westover Terrace

Fort Worth, Texas

Date: August 14, 1954

Address: \_\_\_\_\_

Date \_\_\_\_\_

Address: \_\_\_\_\_

Date \_\_\_\_\_

Address: \_\_\_\_\_

Date \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

STATE OF TEXAS }  
COUNTY OF HARRIS } SS

On this 12<sup>th</sup> day of July, 1954, before me personally appeared DAVID FRAME to me personally known who being by me duly sworn, did say that he is the Vice President of HUMBLE OIL & REFINING COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said DAVID FRAME acknowledged said instrument to be the free act and deed of said corporation.

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

My Commission Expires:  
My Commission Expires June 1, 1955

Wayne Lehe  
Notary Public WAYNE LEHEW

STATE OF Texas }  
COUNTY OF Dallas } SS

On this 27<sup>th</sup> day of July, 1954, before me personally appeared E. M. CHAN to me personally known who being by me duly sworn did say that he is the Vice President of MAGNOLIA PETROLEUM COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said E. M. CHAN acknowledged said instrument to be the free act and deed of said corporation.

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

My Commission Expires:  
My commission expires  
June 1, 1955

Gladys H. Walters  
Notary Public, Notary Public  
GLADYS H. WALTERS  
In and for Dallas County, Texas

STATE OF Texas }  
COUNTY OF Harris } SS

On this 3<sup>rd</sup> day of August, 1954, before me personally appeared James H. Durbin to me personally known who being by me duly sworn did say that he is the rec. Vice President of American Republics Corporation and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said James H. Durbin acknowledged said instrument to be the free act and deed of said corporation.

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

My Commission Expires:  
June 1, 1955.

John J. Russo  
JOHN J. RUSSO  
Notary Public, In and for Harris County, Texas

STATE OF TEXAS )  
COUNTY OF Blanco )SS

On this 14<sup>th</sup> day of August 1954, before me personally appeared

John B. Connally and wife, Idanell Brill Connally to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

WITNESS my hand and official seal this 14<sup>th</sup> day of August 1954

My Commission Expires: June 1, 1955 - James Coleman  
Notary Public

STATE OF )  
COUNTY OF )SS

On this       day of       195 , before me personally appeared

to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as       free act and deed.

WITNESS my hand and official seal this       day of       195

My Commission Expires: \_\_\_\_\_  
Notary Public

STATE OF )  
COUNTY OF )SS

On this       day of       195 , before me personally appeared

to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as       free act and deed.

WITNESS my hand and official seal this       day of       195

My Commission Expires: \_\_\_\_\_  
Notary Public

STATE OF )  
COUNTY OF )SS

On this       day of       195 , before me personally appeared

to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as       free act and deed.

WITNESS my hand and official seal this       day of       195

My Commission Expires: \_\_\_\_\_  
Notary Public

**EXHIBIT "B"**  
**HUAPACHE UNIT AREA, EDDY COUNTY, NEW MEXICO**  
**TOWNSHIPS 23 AND 24 SOUTH, RANGES 22 AND 23 EAST**

**SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS**  
**INTERESTS IN ALL LANDS IN THE UNIT AREA**

Tract No.	Description of Land	No. of Acres	Application No. and Lease Date	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty & Percentage	Working Interest Owner *
FEDERAL LAND							
1.	<u>T-23-S, R-22-E</u> Sec. 1: All Sec. 11: SW $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 12: N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ Sec. 13: W $\frac{1}{2}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{2}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , Lot 3 Sec. 24: W $\frac{1}{2}$ , SE $\frac{1}{4}$ Sec. 25: N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{2}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$	2396.42	LC 064855 3-1-51	USA-All	W. G. Ross	Bonnie H. Matlock \$750 per acre out of 2 $\frac{1}{2}$ %, and Margaret W. Wilder  $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
2.	<u>T-23-S, R-23-E</u> Sec. 19: Lot 4, E $\frac{1}{2}$ SW $\frac{1}{4}$	320.00	LC 065224 3-1-52	USA-All	Vee K. Ross	Madge Blocksom and F. W. Blocksom \$750.00 per acre out of 3%	Humble Oil & Refining Company
3.	<u>T-23-S, R-22-E</u> Sec. 5: All	640.00	LC 065224-A 3-1-52	USA-All	Ruby F. Holder	Potash Company of America	3%  Humble Oil & Refining Company
4.	<u>T-23-S, R-22-E</u> Sec. 4: E $\frac{1}{2}$ Sec. 6: Lot 4, SE $\frac{1}{4}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 8: All Sec. 9: W $\frac{1}{2}$ , NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$	1662.81	LC 065257-A 3-1-52	USA-All	Ruby F. Holder	Thomas A. Powell \$750.00 per acre out of 3%	Humble Oil & Refining Company

5. <u>I-23-S, R-22-E</u> Sec. 33: Lots 1, 2, 5, 6, 7, 16, 17	269.66	LC 065793-A 5-1-52	USA-All	Vee K. Ross	Warren R. Cojean and Minnie W. Cobean \$750.00 per acre out of 3%	Humble Oil & Refining Company
6. <u>I-24-S, R-22-E</u> Sec. 2: S $\frac{1}{2}$ NE $\frac{1}{4}$ , lots 1, 2	161.05	LC 066027 10-1-48	USA-All	J. W. Wingfield	None	American Republics Corporation
7. <u>I-24-S, R-22-E</u> Sec. 25: Lot 3, NW $\frac{1}{4}$ SE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 36: W $\frac{1}{2}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$	598.64	LC 066046-A 12-1-52	USA-All	Vee K. Ross	G. C. Weaver \$750.00 per acre out of 3%	Humble Oil & Refining Company
8. <u>I-23-S, R-22-E</u> Sec. 3: All Sec. 10: E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 11: W $\frac{1}{2}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13: NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 14: N $\frac{1}{2}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , lots 1, 2 Sec. 23: NE $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ E $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 24: SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 25: SW $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 26: E $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$	2470.80	LC 066097 8-1-52	USA-All	W. G. Ross	Burl Steward and Trecie Steward \$750.00 per acre out of 3%	Humble Oil & Refining Company
9. <u>I-24-S, R-22-E</u> Sec. 36: W $\frac{1}{2}$ SE $\frac{1}{4}$	80.00	LC 066111-A 4-1-53	USA-All	Ruby F. Holder	Robert L. Graham and Sue Saunders Graham \$750.00 per acre out of 3%	Humble Oil & Refining Company
10. <u>I-23-S, R-22-E</u> Sec. 6: Lots 1, 2, 3, E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$	427.39	LC 067663 6-1-52	USA-All	Ruby F. Holder	Daniel S. Harroun and Eleanor F. Harroun	Humble Oil & Refining Company
11. <u>I-24-S, R-22-E</u> Sec. 36: Lots 3, 4 <u>I-24-S, R-23-E</u> Sec. 29: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30: Lot 3, N $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 31: Lots 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$	1161.55	LC 069187 11-1-52	USA-All	W. G. Ross	Jerry Curtis and Loneta S. Curtis	Humble Oil & Refining Company

12.	<u>T-24-S, R-22-E</u> Sec. 24: All Sec. 25: W $\frac{1}{2}$ NE $\frac{1}{4}$ , Lots 1, 2 (E $\frac{1}{2}$ NE $\frac{1}{4}$ ) <u>T-24-S, R-23-E</u> Sec. 19: Lots 1, 2, 3	891.21	NM 0936 2-1-53	USA-A11	W. G. Ross	Bertrand O. Baetz and Peggy E. Baetz \$750.00 per acre out of 3%	Humble Oil & Refining Company
13.	<u>T-24-S, R-22-E</u> Sec. 2: SE $\frac{1}{4}$ Sec. 11: All Sec. 14: All Sec. 15: NE $\frac{1}{4}$ Sec. 23: E $\frac{1}{2}$ Sec. 25: NW $\frac{1}{4}$	2080.00	NM 0937 12-1-52	USA-A11	Vee K. Ross	Robert L. Bunnell and Pauline A. Bunnell \$750.00 per acre out of 3%	Humble Oil & Refining Company
14.	<u>T-24-S, R-22-E</u> Sec. 2: Lots 3, 4, S $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ Sec. 3: Lots 1, 2, 3, 5, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$ Sec. 4: All Sec. 9: NE $\frac{1}{4}$ Sec. 10: All	2406.26	NM 0938 4-1-53	USA-A11	Vee K. Ross	Robert L. Bunnell and Pauline A. Bunnell \$750.00 per acre out of 3%	Humble Oil & Refining Company
15.	<u>T-23-S, R-22-E</u> Sec. 26: SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 34: Lots 1, 4, 5, 7, SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 35: E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$	1212.93	NM 01929 2-1-53	USA-A11	W. G. Ross	Bertrand O. Baetz and Peggy E. Baetz \$750.00 per acre out of 3%	Humble Oil & Refining Company
16.	<u>T-23-S, R-22-E</u> Sec. 21: Lots 1, 2, W $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 22: SW $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 26: NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 27: NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 34: N $\frac{1}{2}$ N $\frac{1}{2}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35: W $\frac{1}{2}$ NW $\frac{1}{4}$	1199.06	NM 04454 12-1-52	USA-A11	Vee K. Ross	Mrs. Martha Donaldson \$750.00 per acre out of 3%	Humble Oil & Refining Company
17.	<u>T-23-S, R-22-E</u> Sec. 17: All	640.00	NM 04505-A 10-1-52	USA-A11	Vee K. Ross	John H. Meyer and Denise Davis Meyer \$750.00 per acre out of 3%	Humble Oil & Refining Company

18.	<u>T-23-S, R-22-E</u> Sec. 21: NW $\frac{1}{4}$	160.00	NM 05703 7-1-51	USA-All	Murrell E. Van Hook	None	Murrell E. Van Hook
19.	<u>T-23-S, R-22-E</u> Sec. 33: Lot 8, NW $\frac{1}{4}$ NE $\frac{1}{4}$ ; N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$	232.53	NM 06133 1-1-52	USA-All	W. G. Ross	Henry G. Reed and Margaret Young Reed, Cary S. Hill and Lilla Lovell Hill, Murray Ward and Virginia D. Ward ..... $\frac{1}{2}$ of 3% Thomas Connell and Emily K. Connell ..... $\frac{1}{2}$ of 3%	Humble Oil & Refining Company
20.	<u>T-23-S, R-22-E</u> Sec. 10: W $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 14: Lots 3, 4, NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 15: All Sec. 22: N $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 26: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 23: NW $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 27: N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{2}$ NE $\frac{1}{4}$	1828.48	NM 06478 10-1-52	USA-All	Vee K. Ross	Lucile Parker \$750.00 per acre out of 3%	Humble Oil & Refining Company
21.	<u>T-23-S, R-23-E</u> Sec. 19: Lot 3	43.36	NM 06821 3-1-52	USA-All	Henry G. Reed, Cary S. Hill, 50% Murray Ward Thomas Connell 50%	None	Henry G. Reed, Cary S. Hill, 50% Murray Ward Thomas Connell 50%
22.	<u>T-23-S, R-22-E</u> Sec. 22: SE $\frac{1}{4}$	160.00	NM 06821-A 3-1-52	USA-All	W. G. Ross	Henry G. Reed and Margaret Young Reed, Cary S. Hill and Lilla Lovell Hill, Murray Ward and Virginia D. Ward ..... $\frac{1}{2}$ of 3% Thomas Connell and Emily K. Connell ..... $\frac{1}{2}$ of 3%	Humble Oil & Refining Company
23.	<u>T-23-S, R-23-E</u> Sec. 30: Lots 1, 2, E $\frac{1}{2}$ NW $\frac{1}{4}$	164.91	NM 06821-B 3-1-52	USA-All	Ruby F. Holder	Henry G. Reed and Margaret Young Reed, Cary S. Hill and Lilla Lovell Hill, Murray Ward and Virginia D. Ward ..... $\frac{1}{2}$ of 3% Thomas Connell and Emily K. Connell ..... $\frac{1}{2}$ of 3%	Humble Oil & Refining Company



24.	<u>T-23-S, R-22-E</u> Sec. 21: S <sub>2</sub> Sec. 28: All Sec. 27: SW <sub>1</sub> SW <sub>4</sub>	998.66	NM 06858 2-1-52	USA-A11	Miss Murrell E. Van Hook	None	Miss Murrell E. Van Hook
25.	<u>T-23-S, R-23-E</u> Sec. 30: NE <sub>1</sub> SW <sub>4</sub> Sec. 31: W <sub>2</sub>	388.81	NM 07105 3-1-52	USA-A11	W. G. Ross	T. C. Stromberg and June B. Stromberg \$750.00 per acre out of 3%	Humble Oil & Refining Company
26.	<u>T-24-S, R-23-E</u> Sec. 19: Lot 4, E <sub>2</sub> W <sub>2</sub> , W <sub>2</sub> E <sub>2</sub> , E <sub>2</sub> NE <sub>4</sub> , NE <sub>1</sub> SE <sub>4</sub> Sec. 30: Lots 1, 2, E <sub>2</sub> NW <sub>4</sub> , W <sub>2</sub> NE <sub>4</sub>	718.58	NM 07798 4-1-53	USA-A11	Ruby F. Holder	Howard Brawn and Lucille Brawn \$750.00 per acre out of 3%	Humble Oil & Refining Company
27.	<u>T-24-S, R-23-E</u> Sec. 30: E <sub>2</sub> NE <sub>4</sub>	80.00	NM 07859 6-1-53	USA-A11	Texas Gulf Prod. Company	None	Texas Gulf Prod. Company
28.	<u>T-24-S, R-22-E</u> Sec. 36: Lot 2	40.25	NM 08091 9-1-52	USA-A11	W. G. Ross	Thomas Connell and Emily K. Connell	Humble Oil & Refining Company
29.	<u>T-24-S, R-23-E</u> Sec. 19: SE <sub>1</sub> SE <sub>4</sub> Sec. 32: NE <sub>1</sub> , S <sub>2</sub> NW <sub>4</sub> , S <sub>2</sub> , NE <sub>4</sub> NW <sub>4</sub>	640.00	NM 08108 7-1-52	USA-A11	Ruby F. Holder	Bertrand O. Baetz and Peggy Baetz \$750.00 per acre out of 3%	Humble Oil & Refining Company
30.	<u>T-23-S, R-22-E</u> Sec. 14: NW <sub>1</sub> SW <sub>4</sub> Sec. 33: Lots 9, 10, 11, 12, 13, 15 Sec. 34: Lot 2	148.43	NM 08948 4-1-53	USA-A11	Vee K. Ross	Claude Bate and Mrs. Eugenia Bate \$750.00 per acre out of 3%	Humble Oil & Refining Company
31.	<u>T-24-S, R-22-E</u> Sec. 1: Lots 3, 4, 5, 6, 7, SW <sub>1</sub> NW <sub>4</sub> , SW <sub>4</sub> , W <sub>2</sub> SE <sub>4</sub>	450.02	NM 014419 **	USA-A11	A. C. Holder***	N. H. Berchtold and Zoe Berchtold	Humble Oil & Refining Company
32.	<u>T-24-S, R-22-E</u> Sec. 12: Lots 1, 2, 3, 4, W <sub>2</sub> E <sub>2</sub> W <sub>2</sub> (A11)	605.65	NM 014420 **	USA-A11	Yvonne H. Elliott	Yvonne H. Elliott and Harold A. Elliott	Humble Oil & Refining Company

33. <u>T-24-S, R-22-E</u> Sec. 13: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$ (All)	609.56	NM 014421	USA-ALL	Peggy D. Ford	Peggy D. Ford and William T. Ford	3%	Idanell Brill Connally
34. <u>T-24-S, R-23-E</u> Sec. 6: Lots 1,5,6,7, SE $\frac{1}{4}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$	482.10	NM 014442 8-1-54	USA-ALL	H. O. Miller	H. O. Miller and Maxine Miller	5%	Humble Oil & Refining Company
35. <u>T-24-S, R-23-E</u> Sec. 7: Lots 1,2,5,6,7, E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$	515.61	NM 014443 8-1-54	USA-ALL	Ned Nickson	Ned Nickson and Martha J. Nickson	5%	Humble Oil & Refining Company
36. <u>T-24-S, R-23-E</u> Sec. 18: Lots 1,2,5,6 7,8,9,10,11,12 E $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$	561.59	NM 014446 8-1-54	USA-ALL	D. D. Patteson	D. D. Patteson and Majorie Jane Patteson	5%	Humble Oil & Refining Company
37. <u>T-24-S, R-23-E</u> Sec. 21: SE $\frac{1}{4}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$	80.00	NM 014447 8-1-54	USA-ALL	Jack Carlson	Jack Carlson and Betty Jean Carlson Walter E. Dial and Catherine B. Dial	2 $\frac{1}{2}$ %	Humble Oil & Refining Company
38. <u>T-24-S, R-23-E</u> Sec. 28: E $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$	440.00	NM 014450 8-1-54	USA-ALL	Gordon McMeen	Gordon McMeen and Carol J. McMeen	5%	Humble Oil & Refining Company
39. <u>T-24-S, R-23-E</u> Sec. 33: All	640.00	NM 014451 **	USA-ALL	Lewis C. Kimmel	Lewis C. Kimmel	5%	Humble Oil & Refining Company
40. <u>T-24-S, R-23-E</u> Sec. 34: All	640.00	NM 014452 8-1-54	USA-ALL	Idanell Brill Connally	None		Idanell Brill Connally

40 FEDERAL TRACTS, CONTAINING 29,266.32 ACRES, OR 75.7065% OF UNIT AREA

\* Some working interests are held under Option Agreements, which will be promptly exercised upon approval of Unit Agreement.

\*\* The lessee shown is successful offeror at drawing held on 23rd day of February, 1954, and lease is in process of being issued.

\*\*\* Assignment pending approval.

STATE LAND

41.	T-24-S, R-23-E Sec. 20: NE $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	B-11434-4 9-11-44	STATE-A11	Humble Oil & Refining Company	Otto E. Zwicker and Beatrice L. Zwicker	3%	Humble Oil & Refining Company
42.	T-24-S, R-23-E Sec. 21: NE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	B-11434-4 9-11-44	STATE-A11	Humble Oil & Refining Company	Otto E. Zwicker and Beatrice L. Zwicker	3%	Humble Oil & Refining Company
43.	T-24-S, R-23-E Sec. 17: E $\frac{1}{2}$ NE $\frac{1}{4}$	80.00	E-488-1 8-10-45	STATE-A11	Humble Oil & Refining Company	J. M. Kelly and Esther L. Kelly	5%	Humble Oil & Refining Company
44.	T-24-S, R-23-E Sec. 20: SW $\frac{1}{4}$	160.00	E-488-1 8-10-45	STATE-A11	Humble Oil & Refining Company	J. M. Kelly and Esther L. Kelly	5%	Humble Oil & Refining Company
45.	T-23-S, R-22-E Sec. 16: SE $\frac{1}{2}$ NE $\frac{1}{4}$	40.00	E-2203 10-11-48	STATE-A11	Humble Oil & Refining Company	Anne Kotasak	3%	Humble Oil & Refining Company
46.	T-23-S, R-22-E Sec. 2: N $\frac{1}{2}$ , SW $\frac{1}{4}$ , NE $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 9: S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 11: E $\frac{1}{2}$ E $\frac{1}{2}$ Sec. 12: S $\frac{1}{2}$ S $\frac{1}{2}$ Sec. 13: W $\frac{1}{2}$ W $\frac{1}{2}$ Sec. 16: NW $\frac{1}{4}$ , NE $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{2}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ , NE $\frac{1}{2}$ SE $\frac{1}{4}$ , SW $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 25: S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 36: All	2314.36	E-7078 4-9-53	STATE-A11	Humble Oil & Refining Company	None		Humble Oil & Refining Company
47.	T-24-S, R-23-E Sec. 5: W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{2}$ NE $\frac{1}{4}$ W $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{2}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 8: W $\frac{1}{2}$ , SE $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 16: W $\frac{1}{2}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 17: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 20: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{2}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 21: NE $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{2}$ S $\frac{1}{2}$ , SE $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 28: W $\frac{1}{2}$ NE $\frac{1}{4}$	3000.12	E-7079 4-9-53	STATE-A11	Humble Oil & Refining Company	None		Humble Oil & Refining Company

48.	<u>T-23-S, R-22-E</u> Sec. 2: SW $\frac{1}{4}$ SE $\frac{1}{4}$	1200.23	E-7528 10-20-53	STATE-All	Humble Oil & Refining Company	None	Humble Oil & Refining Company
	<u>T-24-S, R-23-E</u> Sec. 5: SE $\frac{1}{4}$ NW $\frac{1}{4}$ ; Lot 1 Sec. 16: SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 20: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 17: NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 22: W $\frac{1}{2}$ Sec. 27: All						
49.	<u>T-24-S, R-23-E</u> Sec. 5: Lot 3; NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 8: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 16: NW $\frac{1}{4}$ NE $\frac{1}{4}$ ; SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 17: N $\frac{1}{2}$ SW $\frac{1}{4}$	280.05	E-8277 6-15-54	STATE-All	Humble Oil & Refining Company	None	Humble Oil & Refining Company
50.	<u>T-23-S, R-22-E</u> Sec. 16: NW $\frac{1}{4}$ SE $\frac{1}{4}$ ; E $\frac{1}{2}$ SW $\frac{1}{4}$ ; SW $\frac{1}{4}$ SW $\frac{1}{4}$ ; SE $\frac{1}{4}$ SE $\frac{1}{4}$	200.00	E-8270 6-15-54	STATE-All	Humble Oil & Refining Company	None	Humble Oil & Refining Company

---

10 STATE TRACTS, CONTAINING 7,354.76 ACRES, OR 19.0254% OF UNIT AREA

---

FEE LAND

51.	<u>T-23-S, R-22-E</u> Sec. 33: Lot 14 Sec. 34: Lot 3, 6 <u>T-24-S, R-22-E</u> Sec. 3: Lot 6	56.69 FEE	Howard H. and Elizabeth M. Wester	All	Humble Oil & Refining Company	None	Humble Oil & Refining Company
52.	<u>T-23-S, R-22-E</u> Sec. 13: <del>E<sup>1</sup>/<sub>2</sub>E<sup>1</sup>/<sub>2</sub></del> , Lot 2 Sec. 24: <del>N<sup>1</sup>/<sub>2</sub>N<sup>1</sup>/<sub>2</sub></del> , <del>SE<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub></del>	305.06 FEE	John R. Joyce II & Company, All		Humble Oil & Refining Company	R.A. Broomfield, Jr. and Geraldine R. Broomfield A. N. Etz and Bonnie R. Etz H. W. Etz, Jr. and Rita F. Etz	Humble Oil & Refining Company
53.	<u>T-23-S, R-22-E</u> Sec. 25: <del>SE<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>2</sub></del> <u>T-23-S, R-23-E</u> Sec. 30: Lots 3, 4, <del>SE<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>2</sub></del>	164.65 FEE 5-15-53	C. P. Pardue and Mattie E. Pardue, John Guitar, Jr., Trustee, and Repps B. Guitar, Trustee 25% John R. Joyce II & Company 75%		Humble Oil & Refining Company	R.A. Broomfield, Jr. and Geraldine R. Broomfield A. N. Etz and Bonnie R. Etz H. W. Etz, Jr. and Rita F. Etz	Humble Oil & Refining Company
54.	<u>T-24-S, R-22-E</u> Sec. 1: Lots 1, 2, <del>SW<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub></del> , <del>SE<sup>1</sup>/<sub>2</sub>NW<sup>1</sup>/<sub>2</sub></del> <u>T-24-S, R-23-E</u> Sec. 6: Lots 2, 3, 4, <del>SW<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub></del>	310.01 FEE 5-15-53	John R. Joyce II & Company, All		Humble Oil & Refining Company	None	Humble Oil & Refining Company
55.	<u>T-24-S, R-23-E</u> Sec. 7: <del>S<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>2</sub></del> , <del>SE<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>2</sub></del> Sec. 18: <del>NW<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub></del>	160.00 FEE 5-15-53	John R. Joyce II & Company, All		Humble Oil & Refining Company	None	Humble Oil & Refining Company
56.	<u>T-23-S, R-22-E</u> Sec. 23: <del>SW<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub></del> , <del>S<sup>1</sup>/<sub>2</sub>NW<sup>1</sup>/<sub>2</sub></del> , <del>NW<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>2</sub></del>	160.00 FEE 5-15-53	John & Joyce II & Company, All		Humble Oil & Refining Company	None	Humble Oil & Refining Company

57.	<u>T-24-S, R-22-E</u>	880.10	FEE	J. B. Foster	All	Magnolia Petroleum Co.	None	Magnolia Petroleum Co.
	Sec. 25: S $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$	2-9-48						
	Sec. 36: NE $\frac{1}{4}$ NE $\frac{1}{4}$							

T-24-S, R-23-E  
 Sec. 30: S $\frac{1}{2}$ S $\frac{1}{2}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ ,  
 Sec. 29: S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ ,  
           N $\frac{1}{2}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$   
 Sec. 32: NW $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$   
 Sec. 28: N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$   
 Sec. 21: SW $\frac{1}{4}$ SW $\frac{1}{4}$   
 Sec. 31: NW $\frac{1}{4}$ NW $\frac{1}{4}$

---

7 FEE TRACTS, CONTAINING 2,036.51 ACRES, OR 5.2681% OF UNIT AREA

---



---

TOTAL 57 TRACTS, CONTAINING 38,657.59 ACRES, HUAPACHE UNIT AREA, EDDY COUNTY, NEW MEXICO

---

August 19, 1954

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

Amie D. Battock Tr 31  
Margaret M. Wilder Tr 31  
Tr 39  
Ted Tucker Tr 35  
Martha J. Nickson Tr 35

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS

On this the 8th day of July, 1954, before me personally appeared Lewis C. Kimmel

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

7-10-55

Lewis C. Kimmel  
Notary Public

STATE OF New Mexico }  
COUNTY OF Chaves } SS

On this 12<sup>th</sup> day of July, 1954, before me personally appeared Bonnie H. Matlock  
to me personally known to be the person described in and who executed the fore-  
going instrument, and acknowledged that she executed the same as her free  
act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and  
year in this certificate above written.  
My Commission Expires: Sept. 1, 1954

Juan Causado  
Notary Public

STATE OF New Mexico }  
COUNTY OF Lahoux } SS

On this 15 day of July, 1954, before me personally appeared Ed Jackson H. Matlock & Jackson  
to me personally known to be the persons described in and who executed the fore-  
going instrument, and acknowledged that they executed the same as their  
free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day  
and year in this certificate first above written.

My Commission Expires: 3/14/57

Ernest Lee Hodges  
Notary Public

STATE OF Texas }  
COUNTY OF El Paso } SS

On this 24<sup>th</sup> day of July, 1954, before me personally appeared Margaret M. Wilder  
to me personally known to be the person described in and who executed the fore-  
going instrument and acknowledged that she executed the same as her  
free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day  
and year in this certificate last above written.

My Commission Expires:

Eva Bauer  
Notary Public

EVA BAUER, Notary Public, in and for El Paso  
County, Texas, My commission Expires June 1, 1955

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_  
to me personally known to be the person described in and who executed the fore-  
going instrument and acknowledged that he executed the same as \_\_\_\_\_  
free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day  
and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public



CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

<u>MB Madge Blockson</u> Tr 2	<u>MD Martha Donaldson</u> Tr 16
<u>FWB F. W. Blockson</u> Tr 2	<u>MRC W. R. Cobean</u> Tr 5
<u>LP Lucille Parker</u> Tr 20	<u>MRC Minnie W. Cobean</u> Tr 5

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS

On this the 20<sup>th</sup> day of July, 1954, before me personally appeared Madge Blockson and F. W. Blockson, husband and wife,

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

June 12, 1956

Margaret Couch  
Notary Public

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS

On this 19 day of July, 1954, before me personally appeared  
LUCILLE PARKER  
to me personally known to be the person described in and who executed the fore-  
going instrument, and acknowledged that she executed the same as her free  
act and deed.

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

My Commission Expires: 9-25-57

Faye Wilson  
Notary Public

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS

On this 19 day of July, 1954, before me personally appeared  
MRS. MARTHA DONALDSON  
to me personally known to be the person described in and who executed the fore-  
going instrument, and acknowledged that she executed the same as her  
free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day  
and year in this certificate first above written.

My Commission Expires: 9-25-57

Faye Wilson  
Notary Public

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS

On this 12 day of July, 1954, before me personally appeared  
WARREN R. COBEAN AND WIFE MINNIE W. COBEAN  
to me personally known to be the persons described in and who executed the fore-  
going instrument and acknowledged that they executed the same as their  
free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day  
and year in this certificate last above written.

My Commission Expires: 12-27-54

Ruth C. McPherson  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_, before me personally appeared  
to me personally known to be the person described in and who executed the fore-  
going instrument and acknowledged that he executed the same as \_\_\_\_\_  
free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day  
and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

[Signature] *Attest*  
\_\_\_\_\_  
Ass't. Secretary

POTASH COMPANY OF AMERICA  
[Signature]  
\_\_\_\_\_  
Vice President Tr 3

STATE OF \_\_\_\_\_ )  
STATE OF NEW MEXICO } SS  
COUNTY OF EDDY }

On this 3rd day of August, 1954, before me personally appeared F. O. Davis to me personally known who being by me duly sworn, did say that he is the Vice President of Potash Company of America and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said F. O. Davis acknowledged said instrument to be the free act and deed of said corporation.

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

My Commission Expires: 3-30-55

[Signature]  
Notary Public  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

[Signature] *Att'y*  
Ass't. Secretary

POTASH COMPANY OF AMERICA  
[Signature]  
Vice President Tr 3

STATE OF \_\_\_\_\_ )  
STATE OF NEW MEXICO } SS  
COUNTY OF EDDY }

On this 3rd day of August, 1954, before me personally appeared F. O. Davis to me personally known who being by me duly sworn, did say that he is the Vice President of Potash Company of America and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said F. O. Davis acknowledged said instrument to be the free act and deed of said corporation.

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

My Commission Expires: 3-30-55

[Signature]  
Notary Public  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

TAP Thomas A. Powell  
7-1-14  
GOW G. B. Weaver  
7-1-7

RLB Robert L. Bunnell  
7-13-14  
PAB Pauline A. Bunnell  
7-13-14

STATE OF NEW MEXICO )  
COUNTY OF EDDY ) SS

On this the 18<sup>th</sup> day of July, 1954, before me personally appeared Robert L. Bunnell and Pauline A. Bunnell, his wife

to me personally known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

Nov 17, 1955

James R. Jones  
Notary Public

STATE OF NEW MEXICO )  
COUNTY OF EDDY ) SS

On this 12<sup>th</sup> day of July, 1954, before me personally appeared Thomas A. Russell  
to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.  
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate above written.  
My Commission Expires: 8-21-54 X. L. Bennett  
Notary Public

STATE OF NEW MEXICO )  
COUNTY OF EDDY ) SS

On this 12<sup>th</sup> day of July, 1954, before me personally appeared G. C. Weaver  
to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.  
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate first above written.  
My Commission Expires: 8-21-54 X. L. Bennett  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_  
to me personally known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.  
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.  
My Commission Expires: \_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_  
to me personally known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.  
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.  
My Commission Expires: \_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

JWW

J. W. Wingfield  
7-6

STATE OF TEXAS )  
COUNTY OF HARRIS )SS

On this the 17th day of August, 1954, before me personally appeared J. W. Wingfield

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

June 1, 1955

Peggy M. Riter  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

\_\_\_\_\_  
BS Burl Steward  
\_\_\_\_\_  
TS Trecie Steward  
\_\_\_\_\_

STATE OF KANSAS )  
COUNTY OF Monro ) SS

On this the 2 day of Aug, 1954, before me personally appeared Burl Steward and wife, Trecie Steward

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

Feb 1 - 1955

W. B. Carson  
Notary Public



CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

<u>WLO Robert L. Graham</u> Tr 9	<u>Lack Carlson</u> Tr 37
<u>SSG Sue Saunders Graham</u> Tr 9	<u>Betty Jean Carlson</u> Tr 37
<u>Catherine B. Dial</u> Tr 37	<u>Walter Edna</u> Tr 37

STATE OF FLORIDA )  
COUNTY OF Hillsborough ) SS

On this the 24 day of July, 1954, before me personally appeared Robert L. Graham and Sue Saunders Graham, his wife

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

Feb. 13, 1958

John T. Moore  
Notary Public

STATE OF New Mexico

COUNTY OF Bernalillo

SS.

On this 3rd day of August, 1954, before me personally appeared Jack Carlson & Betty Jean Carlson and Walter E. Dial & Catherine B. Dial, his wife

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

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

My Commission Expires:

**April 16, 1955**

*Cecil E. Young*

Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires:

Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires:

Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires:

Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires:

Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

Bertrand O. Paez  
T-12-15-29  
ACH  
Foggy E. Paez  
T-12-15-29  
PEB  
AA Holder  
T-1-31  
ACH

Lucy J. Holder  
T-1-2-4-9-10-22-25-29  
ACH  
W. S. Koss  
T-1-1-8-11-12-15-19-22-25-28  
ACH  
Vee K. Ross  
T-1-2-5-7-13-14-16-17-20-30  
VCR

STATE OF \_\_\_\_\_ )  
COUNTY OF TEXAS ) SS

On ~~this~~ the 6<sup>th</sup> day of August, 1954, before me personally appeared \_\_\_\_\_

Bertrand O. Paez and Foggy E. Paez, husband and wife

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

they

~~their~~ IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

6/1/55

Frank H. Silcock  
Notary Public

STATE OF NEW MEXICO }  
COUNTY OF LEA } SS.

On this 13th day of AUGUST, 1954, before me personally appeared A. C. Holder and his wife, Ruby F. Holder  
to me personally known to be the person 8 described in and who executed the foregoing instrument, and acknowledged that he Y executed the same as their free act and deed.

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

My Commission Expires: May 21, 1957 Lynna Justice  
Notary Public

STATE OF NEW MEXICO }  
COUNTY OF LEA } SS.

On this 13th day of August, 1954, before me personally appeared W. G. Ross and his wife, Vee K. Ross  
to me personally known to be the person 8 described in and who executed the foregoing instrument, and acknowledged that he Y executed the same as their free act and deed.

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

My Commission Expires: May 21, 1957 Lynna Justice  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_  
to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_  
to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_  
to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

JH:

John H. Meyer  
Tr. 17

Howard Brawn  
Tr. 26

DD:

Denise Davis Meyer  
Tr. 17

Lucille Brawn  
Tr. 26

Daniel S. Harroun  
Tr. 10

Eleanor J. Harroun  
Tr. 10

STATE OF ~~NEW MEXICO~~ Colorado )  
COUNTY OF Boulder ) SS

On this the 16 day of July, 1954, before me personally appeared John H. Meyer and Denise Davis Meyer, husband and wife

to me personally known to be the person is described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

My Commission expires Sept. 10, 1955

[Signature]  
Notary Public

STATE OF NEW MEXICO } SS.  
COUNTY OF CHAVES

On this 19<sup>th</sup> day of July, 1954, before me personally appeared  
Howard Brawn and his wife, Lucille Brawn  
to me personally known to be the person B described in and who executed the foregoing instrument, and acknowledged  
that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate  
above written.  
My Commission Expires: Sept. 1, 1954  
Jean Cavood Notary Public

STATE OF New Mexico } SS.  
COUNTY OF Eddy

On this 20<sup>th</sup> day of July, 1954, before me personally appeared  
Daniel S. Harmon and Wife Eleanor F. Harmon  
to me personally known to be the person S described in and who executed the foregoing instrument, and acknowledged  
that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate  
above written.  
My Commission Expires: June 25, 1958  
R. G. Stephens Notary Public

STATE OF \_\_\_\_\_ } SS.  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared  
\_\_\_\_\_ to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged  
that \_\_\_\_\_ he \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate  
above written.  
My Commission Expires: \_\_\_\_\_  
\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ } SS.  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared  
\_\_\_\_\_ to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged  
that \_\_\_\_\_ he \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate  
above written.  
My Commission Expires: \_\_\_\_\_  
\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ } SS.  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared  
\_\_\_\_\_ to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged  
that \_\_\_\_\_ he \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate  
above written.  
My Commission Expires: \_\_\_\_\_  
\_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1<sup>st</sup> day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

Eugenia Bate  
Tr. 30

Claude Bate  
Tr. 30

Jerry Courtin  
Tr. 11

Santa S. Curtis  
Tr. 11

John B. Stromberg  
Tr. 25

June B. Stromberg  
Tr. 25

STATE OF New Mexico )  
COUNTY OF Santa Fe ) SS

On this the 15<sup>th</sup> day of July, 1954, before me personally appeared Eugenia Bate and Claude Bate  
Husband and wife

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:

EXPIRED JULY 30, 1954

Walter R. Samayoa  
Notary Public

STATE OF NEW MEXICO

COUNTY OF EDDY

SS.

On this 17 day of July, 1954, before me personally appeared  
Jerry Curtis and Loneta S. Curtis, husband and wife

to me personally known to be the person ■ described in and who executed the foregoing instrument, and acknowledged  
that he executed the same as their free act and deed.

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

My Commission Expires: 11-8-56

[Signature]  
Notary Public

STATE OF New Mexico

COUNTY OF Eddy

SS.

On this 17 day of July, 1954, before me personally appeared

T.C. Stomberg and wife Jane S. Stomberg

to me personally known to be the person S described in and who executed the foregoing instrument, and acknowledged  
that he executed the same as their free act and deed.

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

My Commission Expires: 11-8-56

[Signature]  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged  
that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged  
that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged  
that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public



CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

Guerrero H. Ewing John M. Kelly  
T.L. 321 T.L. 321  
Leland Elliott Esther L. Kelly  
T.L. 321 T.L. 321  
J.B. Foster Madeline Foster  
T.L. 541 T.L. 57

STATE OF NEW MEXICO )  
COUNTY OF CHAVIS )SS  
)

On this the 4th day of August, 1954, before me personally appeared John M. Kelly and his wife, Esther L. Kelly

to me personally known to be the person as described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:  
September 25, 1957

Faye Wilson  
Notary Public

STATE OF NEW MEXICO

COUNTY OF BERNALILLO

SS.

On this 12<sup>TH</sup> day of August, 1954, before me personally appeared

Ivonne H. Elliott and her husband, Harold Elliott

to me personally known to be the person ■ described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

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

My Commission Expires: My Commission Expires Feb. 11, 1957

Clayton Smith  
Notary Public

STATE OF Texas

COUNTY OF Culberson

SS.

On this 16<sup>th</sup> day of August, 1954, before me personally appeared

J. B. Foster and his wife, Madeline Foster

to me personally known to be the person ■ described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

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

My Commission Expires: June 1, 1955

E. C. Boyd  
Culberson Co Texas  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

GM	<u>[Signature]</u> Tr. 38	DDP	<u>[Signature]</u> Tr. 36
CJM	<u>Carol J. McMeen</u> Tr. 38	MJP	<u>Marjorie Jane Patton</u> Tr. 36
	<u>Maxine Miller</u> Tr. 34		<u>H. O. Miller</u> Tr. 34

STATE OF NEW MEXICO      )  
  ) SS  
COUNTY OF   LEA            )

On this the 16th day of July, 1954, before me personally appeared Gordon McMeen and wife, Carol J. McMeen

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:  
May 21, 1957

[Signature]  
Notary Public

STATE OF NEW MEXICO )  
COUNTY OF LEA ) SS

On this 16th day of October, 1954, before me personally appeared D. D. Patterson and wife, Marjorie Jane Patterson to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that t he reexecuted the same as their free act and deed.

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

My Commission Expires:

May 21, 1957

James C. Fisher  
Notary Public

STATE OF New Mexico )  
COUNTY OF Sandoz ) SS

On this 22<sup>nd</sup> day of July, 1954, before me personally appeared H. O. Miller and wife, Maxine Miller to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that t he reexecuted the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate first above written.

My Commission Expires:

Aug 28, 1957

James D. Dutton  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument and acknowledged that \_\_\_\_\_ he \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared

to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument and acknowledged that \_\_\_\_\_ he \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

Peggy D. Ford      Idanell Brill Connally  
William T. Ford      John B. Connally

STATE OF TEXAS      )  
COUNTY OF TARRANT      )SS

On this the 22nd day of July, 1954, before me personally appeared Idanell Brill Connally and John B. Connally,  
her husband,

to me personally known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:  
June 1, 1955

Patricia Trrazier  
Notary Public

STATE OF Louisiana }  
COUNTY OF Eddy } SS

On this 21 day of July, 1954, before me personally appeared Peggy D. Ford and William T. Ford, her husband, to me personally known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

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

My Commission Expires:

May 13, 1958

J. Edgar Campbell  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_ to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate first above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_ to me personally known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_ to me personally known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

A. N. Etz  
Tr. 52-53

Bonnie R. Etz  
Tr. 52-53

H. N. Etz  
Tr. 52-53

Reta H. Etz  
Tr. 52-53

R. O. Broomfield  
Tr. 52-53

Geraldine R. Broomfield  
Tr. 52-53

STATE OF NEW MEXICO )  
COUNTY OF CHAVES )SS

On this the 8 day of July, 1954, before me personally appeared A. N. Etz and wife, Bonnie R. Etz

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:  
November 24, 1956

T. J. Jackson  
Notary Public

STATE OF OKLAHOMA }  
COUNTY OF Guthrie } SS

On this 1 day of July, 1954, before me personally appeared R. A. Broomfield, Jr. and wife, Geraldine R. Broomfield to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that the y executed the same as their free act and deed.

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

My Commission Expires:

March 28, 1957.

Danona M. Cannon  
Notary Public

STATE OF NEW MEXICO }  
COUNTY OF CHAVES } SS

On this 22 day of July, 1954, before me personally appeared H. W. Ets, Jr.

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate first above written.

My Commission Expires:

November 24, 1956

J. P. Jackson  
Notary Public

STATE OF NEW MEXICO }  
COUNTY OF CHAVES } SS

On this 22 day of July, 1954, before me personally appeared Reta F. Ets, wife of H. W. Ets, Jr.

to me personally known to be the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.

My Commission Expires:

November 24, 1956

J. P. Jackson  
Notary Public

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 195  , before me personally appeared \_\_\_\_\_ to me personally known to be the person \_\_\_\_\_ described in and who executed the foregoing instrument and acknowledged that \_\_\_\_\_ he \_\_\_\_\_ executed the same as \_\_\_\_\_ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year in this certificate last above written.

My Commission Expires:

\_\_\_\_\_  
Notary Public



CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

J.G., Jr.  
Trustee, Guitar Trust Estate

R.R.C.  
Trustee, Guitar Trust Estate

C.F.P. C. P. Pardue  
7-53

C.F.P. Mattie E. Pardue  
7-53

{ JOHN R. JOYCE II AND COMPANY  
{ A Partnership  
{ BY  
{ J.R.J. II John R. Joyce  
7-50-53-55-56

STATE OF NEW MEXICO )  
COUNTY OF EDDY )SS

On this the 5th day of August, 1954, before me personally appeared C. P. Pardue and wife, Mattie E. Pardue

to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:  
Dec 13, 1957

E. R. B. Anderson  
Notary Public

STATE OF NEW MEXICO

COUNTY OF EDDY

SS.

On this 15th day of AUGUST, 1954, before me personally appeared John R. Joyce II, a member of the partnership of John R. Joyce II and Company

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed, and as the free act and deed of said partnership.

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

My Commission Expires:

Dec 13, 1957

Ed R. Buchanan  
Notary Public

STATE OF TEXAS

COUNTY OF TAYLOR

SS.

On this \_\_\_\_\_ day of August, 1954, before me personally appeared John Gutar, Jr., Trustee, Gutar Trust Estate

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed, and in the capacity therein stated.

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

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF TEXAS

COUNTY OF TAYLOR

SS.

On this \_\_\_\_\_ day of August, 1954, before me personally appeared Poppe B. Gutar, Trustee, Gutar Trust Estate

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed, and in the capacity therein stated.

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

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally appeared \_\_\_\_\_

to me personally known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as \_\_\_\_\_ free act and deed.

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

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO  
COUNTY OF SANTA FE  
CITY OF SANTA FE

FILE NO. 749  
CASE NO. 2571

THE APPLICATION OF NEW MEXICO  
OIL & GAS COMPANY FOR A DECREE  
IN THE MATTER OF THE ESTATE OF  
JAMES H. HARRIS, DECEASED,  
AND HIS WIFE, MARY HARRIS,  
DECEASED, WITHIN PROBATE,  
AND AS TO THE ESTATE OF SAID  
HARRIS, N.M.P.M.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock A.M. on the 15<sup>th</sup> day of July, 1954, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission".

NOW, on this 16<sup>th</sup> day of July, 1954, the Commission, a quorum being present, having considered said application and the evidence introduced in support thereof, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the proposed unit plan will in principle tend to promote the conservation of oil and gas and the prevention of waste.

IT IS THEREFORE ORDERED:

SECTION 1. That this order shall be known as the

HARRIS UNIT AGREEMENT ORDER

SECTION 2. (a) That the project herein referred to shall be known as the Harriss Unit Agreement, and shall hereafter be referred to as the "Project".

(b) That the plan by which the Project shall be operated shall be known as the Harriss Unit Agreement, and shall hereafter be referred to as the "Plan".

(c) That the plan by which the Project shall be operated shall be known as the Harriss Unit Agreement, and shall hereafter be referred to as the "Plan".





*[Illegible handwritten text]*

*[Illegible handwritten text]*

*[Illegible handwritten text]*

6

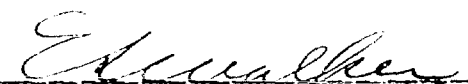
CERTIFICATE OF APPROVAL  
BY COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO  
OF UNIT AGREEMENT FOR DEVELOPMENT AND OPERATION  
OF HUAPACHE UNIT AREA, EDDY COUNTY, NEW MEXICO

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, an agreement for the development and operation of the Huapache Unit Area, Eddy County, New Mexico dated 1st day of July, 1954, in which the Humble Oil & Refining Company, a corporation, is designated as Operator, and which has been executed by various parties owning and holding oil and gas leases embracing lands within the Unit Area and upon examination of said Agreement, the Commissioner finds:

- (a) That such Agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said field;
- (b) That under the operations proposed, the State will receive its fair share of the recoverable oil or gas in place under its land in the area affected;
- (c) That the Agreement is in other respects for the best interest of the State;
- (d) That the Agreement provides for the unit operation of the field, for the allocation of production, and the sharing of proceeds from a part of the area covered by the Agreement on an acreage basis as specified in the Agreement.

NOW, THEREFORE, by virtue of the authority conferred upon me by the Laws of the State of New Mexico, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the above referred to Huapache Unit Agreement as to the lands of the State of New Mexico committed thereto, and all oil and gas leases embracing lands of the State of New Mexico committed to said Agreement shall be and the same are hereby amended so that the provisions thereof will conform to the provisions of said Unit Agreement and so that the length of the secondary term of each such lease as to the lands within the unit area will be extended, insofar as necessary, to coincide with the term of said Unit Agreement, and in the event the term of said Unit Agreement shall be extended as provided therein such extension shall also be effective to extend the term of each oil and gas lease embracing lands of the State of New Mexico committed to said Unit Agreement which would otherwise expire, so as to coincide with the extended term of such Unit Agreement.

IN WITNESS WHEREOF, this certificate of approval is executed as of this the 1 day of August, 1954.

  
\_\_\_\_\_  
Commissioner of Public Lands of the  
State of New Mexico

CERTIFICATION      DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior, under the Act approved February 25, 1920, 41 Stat. 437, 30 U.S.C., Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, and delegated to the Director of the Geological Survey pursuant to Departmental Order 2365 of October 8, 1947, 43 C.F.R. Sec. 4.611, 12 F.R. 6784, I do hereby:

A. Approve the attached Agreement for the development and operation of the Huapache Unit Area, State of New Mexico.

B. Certify and determine that the unit plan of development and operation set forth in the attached Agreement is necessary and advisable in the public interest and is for the purpose of more properly conserving the natural resources.

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

*Thomas B. Nolan*  
Acting Director  
United States Geological Survey

SEP 23 1954  
Date \_\_\_\_\_

BEFORE THE  
Oil Conservation Commission  
SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE NO. 749 Regular Hearing

TRANSCRIPT OF PROCEEDINGS

ADA DEARNLEY AND ASSOCIATES  
COURT REPORTERS  
ROOMS 105, 106, 107 EL CORTEZ BUILDING  
TELEPHONE 7-9546  
ALBUQUERQUE, NEW MEXICO



BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
July 15, 1954

-----  
IN THE MATTER OF:

Application of Humble Oil and Refining  
Company for approval of the Huapache Unit  
Agreement embracing 38,658 acres of land  
in Townships 23 and 24 South, Ranges 22  
and 23 East, Eddy County, New Mexico.  
-----

Case No. 749

BEFORE:

Mr. E. S. (Johnny) Walker  
Mr. R. R. Spurrier

TRANSCRIPT OF HEARING

MR. SPURRIER: Case 749.

MR. HINKLE: Clarence Hinkle, representing Humble Oil and Refining Company. This is an application on behalf of the Humble Oil and Refining Company for the approval of the Huapache Unit Agreement in Eddy County. At the time that the application was filed, we filed three copies of the proposed unit agreement. At that time the unit agreement was not complete, in that the copies filed did not have attached Exhibits A and B. I would like to substitute, at this time, the final draft and the Exhibits A and B. Take one of these and lay it out before you so we can give you a picture of the unit. I have a witness to be sworn.

ROBERT W. BIBLE,

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

By MR. HINKLE:

Q State your name, please?

A Robert W. Bibee.

Q Where do you live, Mr. Bibee?

A Roswell, New Mexico.

Q By whom employed?

A Humble Oil and Refining Company.

Q In what capacity?

A I am Assistant Division Geologist in charge of the Roswell Office and in charge of exploration for Humble in New Mexico and Arizona.

Q Have you ever testified before the Commission?

A I have not.

Q Are you a graduate geologist?

A Yes, sir, from the University of Texas.

Q What year?

A 1941.

Q How long have you been with the Humble?

A Since that time, 13 years.

Q In a capacity of geologist?

A Geologist, yes, sir.

Q Are you in charge of the geological work for the Humble Company in New Mexico at this time?

A Yes, sir.

Q Are you familiar with the application of the Humble Company for the approval of the Huapache Unit Agreement?

A Yes, sir.

Q Where is this proposed unit located?

A In Eddy County, New Mexico in Townships 23, 24, South, Ranges 22 and 23 East.

Q How many acres does it consist of?

A 38,657.59 acres.

Q How many acres in the proposed area are Federal lands?

A 29,266.32 acres or 75.7065 percent of the unit area.

Q How many acres are State lands and what percentage of your unit?

A 7,354.76 acres, or 19.0254 percent of the unit area.

Q How many acres are fee lands, and what percentage of the unit?

A 2,036.51 acres or 5.2681 percent of the unit area.

Q Has this area been heretofore designated by the United States Geological Survey as an area suitable and proper for unitization?

A Yes, sir, it has.

Q Do you know whether or not a copy of that designation has been filed with the application for approval?

A Yes, sir.

Q That is dated April 1, 1954?

A Yes, sir, or thereabouts.

Q At the time your application was filed with the United States Geological Survey for approval of the area, did you file with the application a geological report?

A Yes, sir.

Q Do you have available a copy of the report which you filed with the United States Geological Survey?

ADA DEARNLEY & ASSOCIATES  
STENOGRAPHIC REPORTERS  
ROOM 105-106-107 EL CORTEZ BLDG.  
PHONES 7-9645 AND 5-9546  
ALBUQUERQUE, NEW MEXICO

A I do.

Q Will you hand it to the stenographer and have it identified?

(Marked Humble's Exhibit No. 1, for identification.)

Q Of what does the report consist? Are there any exhibits attached to the report?

A The report consists of several pages describing the geology of the Huapache Unit Area, plus a surface, geological sub-surface cross section and two electric logs.

Q Will you show to the Commission the map that is attached?

A (Witness complies.)

Q Explain briefly to the Commission what the plat or map shows.

A The map is on a scale of approximately 8,000 feet to the inch and shows contours based on surface geology on top of the San Andres Formation of the area of the Huapache Unit, and the area of the East Texas Hill Unit to the north along the Huapache-Monocline. It shows the outline of Humble's proposed Huapache Unit.

Q Explain briefly to the Commission what the cross section plat shows that is attached to the geological report?

A The cross section is an attempt, from sub-surface control to visualize what the beds might look like in the sub-surface on the up-side and the down-side of the Huapache-Monocline.

Q State to the Commission in your own words, briefly what the report shows and contains.

A In general the Huapache Monocline is a surface feature

extending from the southern portion of Township 24 South, Range 23 East, northwestward some 40 miles to Township 19 South, Range 18 East, the monocline is a zone of steep dip, with dips approximating eight to twelve degrees along the monocline, dipping to the northeast, whereas the normal dip in the country is one to two degrees on the up-side and the down-side of this monocline. It is our belief that this monocline may be the surface evidence of a subsurface fault or an extremely steep monoclinal dip in the neighborhood of some 5,000 feet of displacement.

One of the most interesting geological facts of the monocline is that the Continental No. 1 Bass wildcat located on the up-dip, southwest side of the monocline in Section 5, Township 22 South, Range 21 East, encountered a very thin Permian Wolfcamp section and no Pennsylvanian beds. Whereas, The Magnolia State W wildcat located in Section 15, 22 South, of Township 21 South, Range -- Excuse me again -- 22 East, had some 760 feet of Permian Wolfcamp beds in excess of that encountered in the Continental-Bass well, plus 3,405 feet of Pennsylvanian beds that were not present at all in the Continental Bass Well. In fact, that all of the Pennsylvanian rocks and a large part of the Permian Wolfcamp rocks were not present in the well on the top of the monocline, establishes the fact that these rocks likely pinch out near or against the monocline.

Of course, these Permian and Pennsylvanian beds are excellent producers of oil and gas in other portions of the Permian Basin. The possibilities of oil accumulation would be in the Wolfcamp and Pennsylvanian rocks, as they either truncate against the fault or pinch out against the monocline, and also in the Siluro, Devonian, Ellenberger and Montoya beds, if they were truncated

against the fault or monocline.

Q Was this report prepared by you or under your direction?

A Under my direction.

Q This is the same report that you have filed with the United States Geological Survey?

A Yes, sir.

MR. HINKLE: We would like to offer the Exhibit in evidence.

MR. SPURRIER: Without objection it will be admitted.

Q Mr. Bibee, state whether or not this proposed area covers all, or substantially all of the geologic features which you have just described to the Commission?

A Substantially all of the south end.

Q And there is another part of this same monocline that is covered by another unit agreement?

A Yes, sir. The East Texas Hill Federal Unit.

Q Which end is that, which direction?

A That would be to the northwest.

Q What lies to the southeast?

A The Carlsbad Caverns National Park or Monument, and the edge of the Capitan reef there.

Q Are you familiar with the form of unit agreement which is proposed to be used in this case and which has been filed with the Commission?

A Yes, sir.

Q State whether or not the Humble is designated as the operator in the unit?

A Humble has been designated as the operator.

Q Does the unit agreement provide for the drilling of any test well?

A Yes, sir, for one 11,000 foot or basement completion wild-cat.

Q In your opinion, will that well be sufficient to test the beds that they are probably producing in the area?

A We hope so.

Q Do you know whether or not this form of agreement is in substantially the same form as unit agreements heretofore used in like cases and approved by the Commission?

A To my knowledge it is.

Q Do you know whether or not an application has been made to the Commissioner of Public Lands for approval of the unit?

A Yes, sir, it has.

Q State whether or not, in your opinion, if production should be obtained and this unit approved, that it would be in the interest of conservation and the prevention of waste?

A Yes, sir, it would be.

Q Is it your opinion that it would promote the greatest ultimate recovery of unitized substances by operation under the unit?

A Yes, sir.

MR. HINKLE: That is all.

MR. SPURRIER: Anyone have a question of the witness? If not the witness may be excused.

(Witness excused.)

MR. SPURRIER: Anyone have a comment in the case?

MR. HINKLE: I would like to let the record show that request has been made to withdraw the report.

MR. SPURRIER: We will take the case under advisement.

STATE OF NEW MEXICO )  
COUNTY OF BERNALILLO ) SS.

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 19th day of July, 1954.

  
Notary Public, Court Reporter

My Commission Expires:

June 19, 1955





HUAPACHE NO. 10 GAS ANALYSIS REPORT

Sp. Grav. 0.588      BTU 1015/cu.ft.

Sweet Gas

<u>MOL %</u>		<u>GPM</u>	
C1	95.62		
C2	2.22		
C3	0.45	C3	0.123
iC4	0.09	iC4	0.029
nC4	0.18	nC4	0.057
iC5	0.04	C5+	0.095
nC5	0.03	C3+	0.304
C6	0.06		
C7+	0.10		
Helium	0.03	Test	
CO2	0.80	12/64" choke	
Nitrogen	0.38	Tubing press. 1280#	
H2	0.00	Trap press. 600#	
H2S	0.00	Gas temp. 50°	

<u>Date</u>	<u>BHP</u>	<u>Shut in Time</u>	<u>Remarks</u>
5-1-63	3665	72 hrs.	Prior to 1st 4 pt. test
5-18-63	3579	72 hrs.	Prior to 2nd 4 pt. test
5-22-63	3578	72 hrs.)	From pressure build up test
5-23-63	3593	100 hrs.)	

EST. RESERVOIR PRESSURE - 3655# (from extrapolation of build-up curve)

Datum - middle of perforations at 9937' (-5804)

749  
January 15, 1964

In re: Huspache Unit  
Eddy County, New Mexico

USA Lease NM 0411995 - Raymond Chorney  
NW $\frac{1}{4}$  Section 21, T-23-S, R-22-E

Manager  
Bureau of Land Management  
Post Office Box 1251  
Santa Fe, New Mexico

Dear Sir:

In connection with the captioned lease, we are enclosing herewith four copies each of Consent and Ratification of Huspache Unit Agreement and Consent and Ratification of Huspache Unit Operating Agreement, which have been executed by Raymond Chorney et ux and accepted by Humble Oil & Refining Company as Unit Operator.

We would appreciate your advising the effective date of the commitment of this federal lease to the Huspache Unit.

If you should have any questions regarding this matter or if we may furnish you additional information, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC/mk

Encls.

REGISTERED MAIL

cc: United States Geological Survey, with copy of each enclosure

Post Office Drawer 1857

Roswell, New Mexico

ATTN: Mr. John Anderson

Commissioner of Public Lands, with copy of each enclosure

Post Office Box 791

Santa Fe, New Mexico

ATTN: Mrs. Marian Rhea

Director, New Mexico Oil Conservation Commission, with copy ea. encl.

Post Office Box 871, Santa Fe, New Mexico

Mr. Raymond Chorney

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Raymond Chorney  
P. O. Box 144, Casper, Wyoming

*Joan Chorney*  
Joan Chorney, Spouse

STATE OF Wyoming }  
COUNTY OF Natrona } SS.

The foregoing instrument was acknowledged before me on this 6th day of January, 1963, by Raymond Chorney & Joan Chorney.

My Commission Expires:

4-2-67

STATE OF Wyoming }  
COUNTY OF Natrona }

The foregoing instrument was acknowledged before me on this 6th day of January, 1963, by \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

HUMBLE OIL & REFINING COMPANY  
Bill R. Payne

DATE 1-13-64

BY Bill R. Payne  
AGENT AND ATTORNEY-IN-FACT

Notary Public

APPROVED	
Desc.	
Acreage	
Int.	
Form	<i>HC</i>
Trade	<i>HC</i>

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNES. WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

APPROVED	
Desc.	
Acreage	
Int.	
Farm	BC
Trade	BC

DATE 1-13-64 HUMBLE OIL & REFINING COMPANY  
Bill R. Payne  
BY Bill R. Payne Raymond Chorney  
AGENT AND ATTORNEY-IN-FACT P. O. Box 144, Casper, Wyoming

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

Joan Chorney  
Joan Chorney, Spouse

The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_,  
\_\_\_\_\_ of \_\_\_\_\_,  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF Wyoming }  
COUNTY OF Natrona } SS.

The foregoing instrument was acknowledged before me on this  
6th day of January, 1964 by Raymond Chorney and  
Joan Chorney.

My Commission Expires:

4-2-67

David R. Hume  
Notary Public

C O P Y

October 31, 1963

In re: Huapache Unit  
Eddy County, New Mexico

USA Lease NM 06858-A  
Tract 24 - SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> Sec. 27, T-23-S, R-22-E

Commissioner of Public Lands  
P. O. Box 791  
Santa Fe, New Mexico  
Attention: Mrs. Marian M. Rhea

United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico  
Attention: Mr. John Anderson

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

Gentlemen:

The captioned federal lease is owned by Lynn V. Waggoner et vir and is inside the Huapache Unit area, however, said lease was never committed to the Huapache Unit Agreement. Mrs. Waggoner now desires to commit said lease to the Huapache Unit and in this connection we enclose to each of you copies of the Consent and Ratification of the Huapache Unit Agreement and Huapache Unit Operating Agreement which have been executed by Lynn V. Waggoner et vir and accepted by Humble Oil & Refining Company as Unit Operator.

We would appreciate your advising the effective date of the commitment of the captioned lease to the Unit. If you should have any questions regarding this matter or if we may furnish you additional information, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC/mk

Encls.

cc: Bureau of Land Management  
P. O. Box 1251  
Santa Fe, New Mexico

## HUAPACHE UNIT AGREEMENT

IN WITNESS WHEREOF, this instrument is executed by the under-  
signed as of the date set forth in their respective acknowledgments.

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR  
 THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
 APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION  
 HUMBLE OIL & REFINING COMPANY  
 DATE 10-29-63  
 BY A. M. [Signature]  
 AGENT AND ATTORNEY-IN-FACT

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
*Lynn V. Waggoner*  
(Lynn V. Waggoner)  
*Richard W. Waggoner*  
(Richard W. Waggoner)

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_,  
\_\_\_\_\_ of \_\_\_\_\_,  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

STATE OF ARIZONA }  
COUNTY OF Marijuana }

SS.

DATE 10-29-63

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

HUMBLE OIL & REFINING COMPANY

BY *R. McClure*

AGENT AND ATTORNEY-IN-FACT

The foregoing instrument was acknowledged before me on this  
22nd day of October, 1963 by Lynn V. Waggoner and Richard  
W. Waggoner, her husband.

APPROVED	
Exec.	<input checked="" type="checkbox"/>
Asst. Secy.	<input checked="" type="checkbox"/>
Gen. Mgr.	<input checked="" type="checkbox"/>
Asst. Mgr.	<input checked="" type="checkbox"/>
Secy.	<input checked="" type="checkbox"/>
Trade	<input checked="" type="checkbox"/>

My Commission Expires:

My Commission Expires Aug. 16, 1966

*H. L. Lippin*  
Notary Public



HUMBLE OIL & REFINING COMPANY

SOUTHWEST REGION

P. O. BOX 1597

ROSWELL, NEW MEXICO

1963 OCT 23 AM 10:21 October 25, 1963

749

In re: Huapache Unit  
Eddy County, New Mexico  
No. 14-08-001-1668  
Federal Lease No. NM 08658  
S $\frac{1}{2}$  Sec. 21, All Sec. 28, T-23-S, R-22-E  
Unit Tract No. 24

Commissioner of Public Lands  
P. O. Box 791  
Santa Fe, New Mexico  
Attention: Mrs. Marian N. Rhea

United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico  
Attention: Mr. John Anderson

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

Gentlemen:

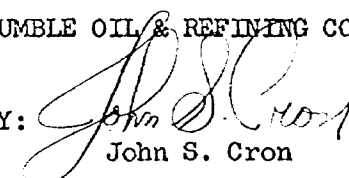
The captioned federal lease is owned by Mr. John H. Trigg and is inside the Huapache Unit area, however, said lease was never committed to the Huapache Unit Agreement. Mr. Trigg now desires to commit said lease to the Huapache Unit and in this connection we are enclosing to each of you copies of the Consent and Ratification of the Huapache Unit Agreement and Huapache Unit Operating Agreement which have been executed by John H. Trigg et ux and accepted by Humble Oil & Refining Company as Unit Operator.

We would appreciate your advising the effective date of the commitment of the captioned lease to the Unit. If you should have any questions regarding this matter or if we may furnish you additional information, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

  
John S. Cron

JSC/mk

Encls.

cc: Bureau of Land Management

P. O. Box 1251  
Santa Fe, New Mexico

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

John H. Trigg  
Pauline V. Trigg

1963 OCT 28 AM 11:00  
NOTARY PUBLIC OFFICE 000

The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_  
of \_\_\_\_\_  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires \_\_\_\_\_  
STATE OF NEW MEXICO  
COUNTY OF CHAVES }  
SS. DATE 10-23-63

APPROVED	
Desc.	
Acres	
Int.	
Form	<u>HC</u>
Trade	<u>HC</u>

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR  
Notary Public  
THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION  
HUMBLE OIL & REFINING COMPANY  
BY L. L. Nichols

The foregoing instrument was acknowledged before me on this  
16th day of October, 1963 by John H. Trigg and Pauline  
V. Trigg, his wife.

My Commission Expires:  
Nov. 19, 1963

L. L. Nichols  
Notary Public

CONSENT AND RATIFICATION

HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
*John H. Trigg*  
*Pauline V. Trigg*

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS.

The foregoing instrument was acknowledged before me on this 16th day of October, 1963 by John H. Trigg and Pauline V. Trigg, his wife.

My Commission Expires:

Nov. 19, 1963

*L. Lucille Nichols*  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_, \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

DATE 10-23-63 HUMBLE OIL & REFINING COMPANY

BY *R. B. [Signature]*

APPROVED	
DATE	
ACREAGE	
INT.	
FORM	
DATE	

# CONSENT AND RATIFICATION

## HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*John H. Trigg*  
*Pauline V. Trigg*

STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) SS.

The foregoing instrument was acknowledged before me on this 16th day of October, 1963 by John H. Trigg and Pauline V. Trigg, his wife.

My Commission Expires:

Nov. 19, 1963

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

DATE 10-23-63 HUMBLE OIL & REFINING COMPANY

BY R. Brantley

APPROVED	
Disc.	
Acres	
Int.	
Lease	
Notes	

September 4, 1963

In re: USA Lease No. LC 066046-J  
SW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 27, T-24-S, R-22-E  
Part of Tract 62

USA Lease No. NM 022618-B  
NW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 27, T-24-S, R-22-E  
Part of Tract 69

USA Lease No. NM 022618-C  
NE $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 28, T-24-S, R-22-E  
Part of Tract 70

Huapache Unit, Eddy County, New Mexico

Mr. Douglas E. Henriques, Manager  
Bureau of Land Management  
Post Office Box 1251  
Santa Fe, New Mexico

Dear Sir:

In connection with the captioned federal leases, we are enclosing herewith four copies each of Consent and Ratification of Huapache Unit Agreement and Consent and Ratification of Huapache Unit Operating Agreement, which have been executed by Humble Oil & Refining Company as lessor and as unit operator.

Each of the captioned federal leases are within the Huapache Unit area, but said leases were never committed to said unit agreement. Each of these leases consists of 40 acres, being a portion of the acreage contained in the unit tracts set out in the caption. Our files indicate the remaining acreage in these tracts to be owned by Monsanto Chemical Company and their leases covering this other portion have never been committed to the Huapache Unit Agreement.

With a copy of this letter to the United States Geological Survey, P. O. Drawer 1857, Roswell, the Oil Conservation Commission, P. O. Box 871, Santa Fe, and to the Commissioner of Public Lands, P. O. Box 791, Santa Fe, Attention Mrs. Marian M. Rhea, we are furnishing a copy of this Consent and Ratification for their files.

When the captioned leases are effectively committed to the captioned unit, we would appreciate being advised of same.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC/mk

Encls.

cc: U.S.G.S., Oil Cons. Commission and Commissioner of Public Lands

# CONSENT AND RATIFICATION

## HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

ATTEST:

John A. Rether  
Assistant Secretary

HUMBLE OIL & REFINING COMPANY

By Ray H. Horton  
Vice President

TRADE O.K.

APPROVED	
Desc.	
Acreage	
Int.	
Term	
Rate	

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } 33.

The foregoing instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_.

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF TEXAS }  
COUNTY OF HARRIS }

The foregoing instrument was acknowledged before me on this 29th day of August, 1963 by RAY H. HORTON, Vice President of HUMBLE OIL & REFINING COMPANY, a Delaware Corporation, on behalf of said Corporation.

My Commission Expires:

WAVIE KALLANDER  
My Commission Expires June 1, 1965

\_\_\_\_\_  
Notary Public

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

ATTEST:

*John A. Renteria*  
(Assistant Secretary)

HUMBLE OIL & REFINING COMPANY

By *Ray H. Horton*  
Vice President

TRADE O.K.

APPROVED	
Desc.	
Acres	
Int.	
Form	
Trade	

STATE OF TEXAS }  
COUNTY OF HARRIS } SS.

The foregoing instrument was acknowledged before me on this  
29th day of August, 1963 by RAY H. HORTON  
Vice President of HUMBLE OIL & REFINING COMPANY,  
a Delaware Corporation, on behalf of said Corporation.

My Commission Expires:

WAVIE KALLANDER  
My Commission Expires June 1, 1965

Notary Public

STATE OF TEXAS }  
COUNTY OF HARRIS } SS.

The foregoing instrument was acknowledged before me on this  
day of , 1963 by

My Commission Expires:

WAVIE KALLANDER  
My Commission Expires June 1, 1965

Notary Public

**HUMBLE OIL & REFINING COMPANY**  
MAIN OFFICE OF SOUTHWEST REGION  
P. O. BOX 1597  
ROSWELL, NEW MEXICO

1963 FEB 6 PM 1:34

February 5, 1963

749

In re: Huapache Unit (Tract No. 28)  
Eddy County, New Mexico  
Lot 2, Section 36, T-24-S, R-22-E  
40.25 acres, Application NM 0316160

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

Dear Sir:

Enclosed we are forwarding to you copy of each Consent and Ratification of Huapache Unit Agreement and Consent and Ratification of Unit Operating Agreement, executed by Mr. Winston R. Cornell, in connection with his Application for Lease NM-0316160. Please note that Humble as Unit Operator has accepted and approved Mr. Cornell's ratification.

If you should have any further questions or if we can be of any further assistance in this regard, please advise.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By: *John S. Cron*  
John S. Cron

JSC/mk  
Encls.

cc: Commissioner of Public Lands  
P. O. Box 791  
Santa Fe, New Mexico  
Attention: Mrs. Marian H. Rhea

Mr. Winston R. Cornell, Attorney at Law  
14321 East Ramona Boulevard  
Baldwin Park, California w/copy of letter dated February 1, 1963,  
from United States Geological Survey

United States Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico  
Attention: Mr. Carl C. Traywick



CONSENT AND RATIFICATION

HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

WINSTON R. CORNELL

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS.

The foregoing instrument was acknowledged before me on this 3RD day of JANUARY, 1963 by WINSTON R. CORNELL.

My Commission Expires:

Notary Public

My Commission Expires February 15, 1964

STATE OF )  
COUNTY OF ) SS.

The foregoing instrument was acknowledged before me on this day of 1958 by of a Corporation, on behalf of said Corporation.

My Commission Expires:

Notary Public

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR HEREBY ACCEPT AND APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

DATE 1-24-63 HUMBLE OIL & REFINING COMPANY

BY

RECEIVED  
1963 JAN 23 AM 5:21  
MAIL OFFICE CCC

RECEIVED

JAN 31 1963

U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

Form Approved

By

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

RECEIVED

JAN 31 1963

The undersigned (whether one or more) has simultaneously <sup>herein</sup> with committed certain oil and gas leasehold interests to the Unit Agreement for the development and operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said Unit Agreement is dated July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered into by and between working interest owners committing oil and gas leasehold interests to said Unit Agreement, and acknowledges that the undersigned has read the same and is familiar with all of the terms and conditions thereof and does hereby consent to said Unit Operating Agreement, as amended, and does hereby ratify all of the terms and provisions thereof exactly the same as if the undersigned had executed the original of said Unit Operating Agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date set forth opposite their respective signatures by the undersigned.

  
WINSTON R. CORNELL

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

The foregoing instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 1958 by \_\_\_\_\_ of \_\_\_\_\_ a \_\_\_\_\_ Corporation, on behalf of said Corporation.

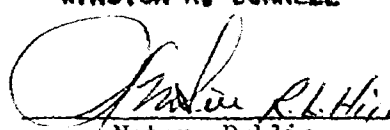
My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS.

The foregoing instrument was acknowledged before me on this 3rd day of JANUARY, 1963 by WINSTON R. CORNELL

My Commission Expires:

  
Notary Public

ACCEPTANCE AND APPROVAL BY \_\_\_\_\_ My Commission Expires February 15, 1964

THE UNDERSIGNED HAS READ THE ABOVE UNIT OPERATING AGREEMENT AND  
APPROVE THE SAME AND FOREGOING CONSENT AND

HUMBLE OIL & REFINING COMPANY

DATE \_\_\_\_\_

BY \_\_\_\_\_

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

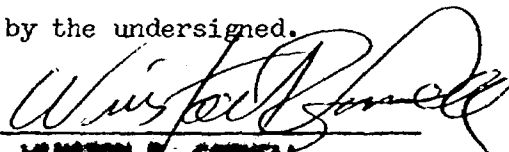
RECEIVED

JAN 31 1963

The undersigned (whether one or more) has simultaneously <sup>U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO</sup> here  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

  
WINSTON R. CORNELL  
\_\_\_\_\_  
\_\_\_\_\_

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

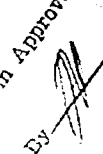
The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1958 by \_\_\_\_\_,  
\_\_\_\_\_ of \_\_\_\_\_,  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS.

The foregoing instrument was acknowledged before me on this  
3rd day of JANUARY, ~~1958~~ <sup>1963</sup> by WINSTON R. CORNELL  
\_\_\_\_\_  
1963

Form Approved  
BY 

~~My Commission Expires:~~

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

HUMBLE OIL & REFINING COMPANY  
DATE 1-24-63  
BY L. R. McComb

7449  
MORGAN J. DAVIS  
VICE PRESIDENT  
W. A. MARY  
WEST TEXAS DIVISION

**HUMBLE OIL & REFINING COMPANY**  
EXPLORATION DEPARTMENT  
P. O. BOX 1287  
ROSWELL, NEW MEXICO

December 9, 1955

*file*

In re: Huapache Unit Area  
Eddy County, New Mexico

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

ATTENTION: Mr. William Macy

Dear Sir:

For your file and information we are enclosing photostat of Application for Extension of Time to the Huapache Unit Agreement, Eddy County, New Mexico.

The application has been executed by Mr. E. S. Walker and by the United States Geological Survey. We have also furnished Mr. Walker an executed copy of this approved application.

If you need any additional information, please advise.

Thank you very much.

Yours very truly,

*R. M. Richardson*

R. M. Richardson

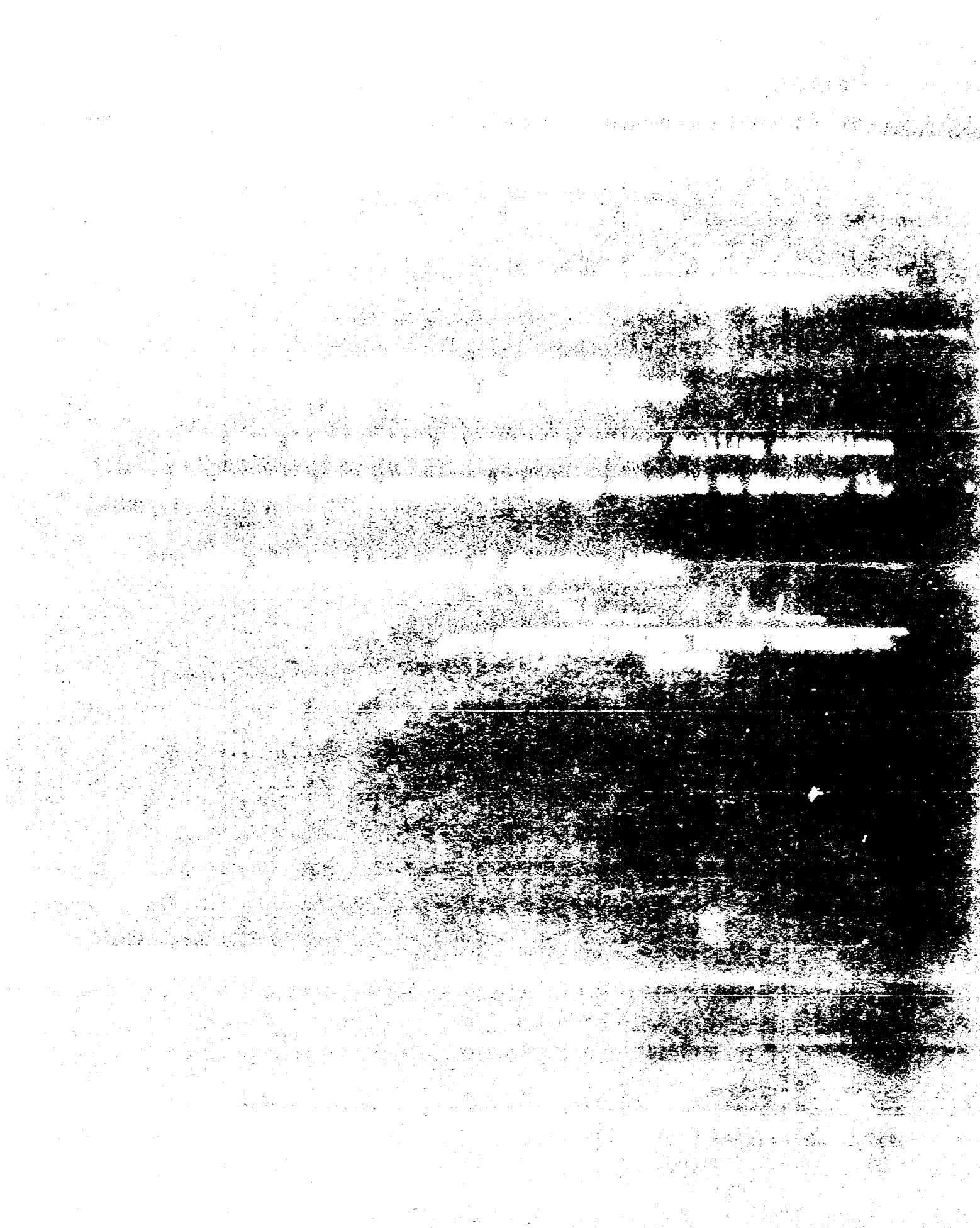
RMR:fd  
Encl.

RECEIVED  
AUG 2 10 32 AM '55  
SANTA FE, N.M.

1. That on October 15, 1954 applicant, as Unit Operator, under the terms of said unit agreement, commenced operations upon a test well in accordance with Section 9 of the unit agreement designated as the Hesperate Oil Unit No. 1 located 1856.05' from the north line and 212.4' from the west line of Section 35, T. 23 S., R. 22 E., N.M.P.M., Elddy County, New Mexico. Said well was completed on May 11, 1955 at a depth of 12,631'. Said initial test well failed to discover oil or gas in paying quantities, but established the existence of a lower reservoir or thrust fault which was encountered at approximately 10,200'. The well passed through a normal sedimentary section for the area with the Dickinson-Hilburger dolomite being encountered at 6000'. At 10,200' a normal Lower Permian section was encountered and at 12,631' a normal Lower Permian section was encountered. The well was abandoned at 12,631'.

the initial survey of the unit area is still in progress. The survey was begun in September of this year and is still in progress and may continue for some six or eight months. The progress of this survey is unusually slow due to the extreme roughness of terrain and poor reflection quality. In addition, a gravity survey was begun south of the unit area in September of this year and work is to continue northward so that the survey will cover the Mangoch Unit Area within the next few months. It will be impossible to assemble and correlate the results of the geological, geophysical and gravity surveys which are being made of the area for some six to eight months. Due to the extremely high cost of the test wells in this area, the initial test well having costs approximately \$400,000, all known geologic exploration tools will be utilized and great care exercised in their interpretation and correlation. If conditions are found to exist that indicate a favorable location for a second test well, then applicant will drill another test well within the unit area, but on account of the foregoing would like to have the time extended for commencement of said well for one year.

3. The Unit Agreement is dated July 1, 1954 and under Section 8 thereunder is in force in effect for a term of five years from the effective date. Under Section 9 of the unit agreement, a second well was to be commenced within six months from the time of the completion of the initial test well. However, it is specifically provided that the Mangoch Unit Area shall be subject to the provisions of the unit agreement and the provisions of the unit agreement shall be subject to the provisions of the unit agreement by providing minimum standards for the unit area.





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

IN REPLY REFER TO:

P. O. Box 167  
Artesia, New Mexico

Oil Conservation Division  
ARTESIA OFFICE

September 6, 1955

Humble Oil & Refining Company  
Box 2347  
Hobbs, New Mexico

Re: Oil and Gas Lease  
New Mexico Chh 54

Gentlemen:

Your "Subsequent Report of Abandonment" dated May 19, 1955,  
covering your well No. 4 Huasache Oil Unit located in the SW 1/4  
section 35, T. 23 S., R. 22 E., Wilcox Area, Eddy County, New Mexico,  
is hereby approved.

Very truly yours,

*John A. Frost*  
John A. Frost  
District Engineer

JAF:ms  
Inspected by R. L. Keelinger  
September 2, 1955

*file*  
#749

*P & A*



J. M. HERVEY 1874-1953  
HIRAM M. DOW  
CLARENCE E. HINKLE  
W. E. BONDURANT, JR.  
GEORGE H. HUNKER, JR.  
WILLIAM C. SCHAUER  
HOWARD C. BRATTON  
S. B. CHRISTY IV

LAW OFFICES  
MAIN HERVEY, DOW & HINKLE  
FIRST NATIONAL BANK BUILDING  
ROSWELL, NEW MEXICO

1954 OCT 26 PM 1:17

October 26, 1954

TELEPHONE 2160  
L. D. 3

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Re: Huapache Unit Agreement

Gentlemen:

We enclose Consent and Ratification showing commitment of additional overriding royalty interests to the Huapache Unit Agreement by Thomas Connell and Emily K. Connell, Murray Ward and Virginia D. Ward, Margaret Young Reed individually and as Executrix of the Estate of Henry G. Reed, and Carey S. Hill individually and as Executor of the Estate of Lilla Lovell Hill. This should be filed with your approved copy of the Unit Agreement.

Yours very truly,

HERVEY, DOW & HINKLE

By Clarence E. Hinkle *mp*

CEH:mp  
Encl.

CONSENT AND RATIFICATION  
HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Exhibit B, do hereby commit all of their said interest to the Huapache Unit Agreement and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement or a counterpart thereof. Above commitment is limited to royalty interests only.

IN WITNESS WHEREOF, this instrument is executed by the undersigned

as of the date set forth in their respective acknowledgments.

*Thomas Connell  
attorney for  
signatures*

71-19-21-22-23-24

71-19-21-22-23

71-19-21-22-23

71-19-21-22-23

Thomas Connell  
Murray Ward  
Estate of Henry G. Reed  
Margaret Young Reed Executrix  
Carey G. Hill  
Lilla Lovell Hill

Emily K. Connell  
Virginia K. Ward  
Margaret Young Reed  
Carey Hill

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES )SS

On this the 3rd day of September, 1954, before me personally appeared Thomas Connell, Emily K. Connell, Murray Ward, Virginia K. Ward, Margaret Young Reed, individually and as Executrix of the Estate of Henry G. Reed, Carey G. Hill, individually and as Executor of the Estate of Lilla Lovell Hill, Deceased, to me personally known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year in this certificate first above written.

My Commission Expires:  
**Sept. 2, 1958**

James A. [Signature]  
Notary Public

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 749  
ORDER NO. R-513

THE APPLICATION OF HUMBLE OIL  
& REFINING COMPANY FOR APPROVAL  
OF THE HUAPACHE UNIT AGREEMENT  
ENTERING 35.84 ACRES OF LAND,  
MORE OR LESS, IN EDDY COUNTY,  
NEW MEXICO, WITHIN TOWNSHIPS  
23 AND 24 S., RANGES 22 AND  
23 E., N.M.P.M.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock A.M. on the  
15<sup>th</sup> day of July, 1954, at Santa Fe, New Mexico, before the  
Oil Conservation Commission of New Mexico, hereinafter referred to  
as the "Commission".

NOW, on this 16<sup>th</sup> day of July, 1954, the Commission, a  
quorum being present, having considered said application and the  
evidence introduced in support thereof, and being fully advised in  
the premises,

FINDS:

- (1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.
- (2) That the proposed unit plan will in principle tend to  
promote the conservation of oil and gas and the prevention of waste.

IT IS THEREFORE ORDERED:

SECTION 1. That this order shall be known as the

HUAPACHE UNIT AGREEMENT ORDER

SECTION 2. (a) That the project herein referred to shall be  
known as the Huapache Unit Agreement, and shall hereafter be re-  
ferred to as the "Project".

(b) That the plan by which the Project shall be  
operated shall be embraced in the form of a unit agreement for the  
development and operation of the Huapache Unit Area referred to in  
the Petitioner's petition and filed with said petition, and such  
plan shall be known as the Huapache Unit Agreement Plan.

SECTION 3. That the Huapache Unit Agreement Plan shall be, and  
hereby is, approved in principle as a proper conservation measure;  
provided, however, that notwithstanding any of the provisions con-  
tained in said unit agreement, this approval shall not be considered  
as waiving or relinquishing in any manner any right, duties or ob-  
ligations which are now, or may hereafter, be vested in the New  
Mexico Oil Conservation Commission by law relative to the supervi-  
sion and control of operations for exploration and development of  
any lands committed to said Huapache Unit Agreement, or relative to  
the production of oil or gas therefrom.

SECTION 4. (a) That the Unit Area shall be:

NEW MEXICO PRINCIPAL MERIDIAN

T. 23 S., R. 22 E.

Secs. 1, 2, 3, 4, 5: All  
Sec. 6: Lots 1, 2, 3, 4,  $E\frac{1}{2}$ ,  $E\frac{1}{2}W\frac{1}{2}$  (All)  
Secs. 8, 9, 10, 11, 12: All  
Sec. 13: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
Sec. 14: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
Sec. 15: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
Secs. 16 and 17: All  
Sec. 21: Lots 1, 2, 3, 4,  $W\frac{1}{2}$ ,  $W\frac{1}{2}E\frac{1}{2}$  (All)  
Secs. 22, 23, 24, 25, 26, 27: All  
Sec. 28: Lots 1, 2, 3, 4,  $W\frac{1}{2}$ ,  $W\frac{1}{2}E\frac{1}{2}$  (All)  
Sec. 33: Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,  $W\frac{1}{2}NE\frac{1}{4}$ ,  $NE\frac{1}{4}NW\frac{1}{4}$ ,  $W\frac{1}{2}NW\frac{1}{4}$  (All)  
Sec. 34: Lots 1, 2, 3, 4, 5, 6, 7,  $E\frac{1}{2}$ ,  $NW\frac{1}{4}$ ,  $E\frac{1}{2}SW\frac{1}{4}$  (All)  
Secs. 35 and 36: All

T. 24 S., R. 22 E.

Sec. 1: Lots 1, 2, 3, 4, 5, 6, 7,  $SW\frac{1}{4}$ ,  $W\frac{1}{2}SE\frac{1}{4}$ ,  $SW\frac{1}{4}NE\frac{1}{4}$ ,  $S\frac{1}{2}NW\frac{1}{4}$  (All)  
Sec. 2: Lots 1, 2, 3, 4,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
Sec. 3: Lots 1, 2, 3, 4,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
Sec. 4: Lots 1, 2, 3, 4,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
Sec. 9:  $NE\frac{1}{4}$   
Secs. 10 and 11: All  
Sec. 12: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
Sec. 13: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
Sec. 14: All  
Sec. 15:  $NE\frac{1}{4}$   
Sec. 23:  $E\frac{1}{2}$   
Sec. 24: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
Sec. 25: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)  
Sec. 36: Lots 1, 2, 3, 4,  $W\frac{1}{2}E\frac{1}{2}$ ,  $W\frac{1}{2}$  (All)

T. 23 S., R. 23 E.

Sec. 19: Lots 3, 4,  $E\frac{1}{2}SW\frac{1}{4}$   
Sec. 30: Lots 1, 2, 3, 4,  $E\frac{1}{2}W\frac{1}{2}$   
Sec. 31: Lots 1, 2, 3, 4, 5,  $E\frac{1}{2}NW\frac{1}{4}$ ,  $NE\frac{1}{4}SW\frac{1}{4}$

T. 24 S., R. 23 E.

Sec. 5: Lots 1, 2, 3, 4,  $S\frac{1}{2}N\frac{1}{2}$ ,  $S\frac{1}{2}$  (All)  
Sec. 6: Lots 1, 2, 3, 4, 5, 6, 7,  $SE\frac{1}{4}$ ,  $E\frac{1}{2}SW\frac{1}{4}$ ,  $SE\frac{1}{4}NW\frac{1}{4}$ ,  $S\frac{1}{2}NE\frac{1}{4}$  (All)  
Sec. 7: Lots 1, 2, 3, 4, 5, 6, 7,  $E\frac{1}{2}$ ,  $E\frac{1}{2}NW\frac{1}{4}$ ,  $SE\frac{1}{4}SW\frac{1}{4}$  (All)  
Sec. 8: All  
Secs. 16 and 17: All  
Sec. 18: Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,  $NE\frac{1}{4}$ ,  $E\frac{1}{2}NW\frac{1}{4}$  (All)  
Sec. 19: Lots 1, 2, 3, 4,  $E\frac{1}{2}$ ,  $E\frac{1}{2}W\frac{1}{2}$  (All)  
Secs. 20 and 21: All  
Sec. 22:  $W\frac{1}{2}$   
Secs. 27, 28, 29: All  
Sec. 30: Lots 1, 2, 3, 4,  $E\frac{1}{2}W\frac{1}{2}$ ,  $E\frac{1}{2}$  (All)  
Sec. 31: Lots 1, 2, 3, 4,  $E\frac{1}{2}W\frac{1}{2}$ ,  $E\frac{1}{2}$  (All)  
Secs. 32, 33, 34: All

Situated in Eddy County, New Mexico, containing 36,553 acres, more or less.

(b) The unit area may be enlarged or contracted as provided in said Plan.

SECTION 5. That the unit operator shall file with the Commission an executed original or executed counterpart of the unit plan Agreement within 30 days after the effective date thereof.

SECTION 6. That any party owning rights in the unitized substances who does not commit such rights to said unit agreement before the effective date thereof may thereafter become a party

thereto by subscribing to and assenting to the same, or by ratifying the same. The unit agreement shall be filed with the Commission within 30 days in writing of the date of ratification.

SECTION 7. That this order shall become effective upon approval of said unit agreement by the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, and shall terminate upon the termination of said unit agreement. The unit operator shall immediately notify the Commissioner in writing of each termination.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

E. J. Mearns

Chairman

E. Walker

Member

William B. Macey

Secretary

SEAL

U.S. CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

July 27, 1954

C  
O  
P  
Y

Mr. Clarence Hinkle, Attorney  
Hervey, Dow and Hinkle  
ROSWELL N M

Dear Sir:

We enclose two signed copies of Order R-513 issued by the  
Commission in Case 749, covering approval of Humble Oil and  
Refining Company's Huapache Unit Agreement.

Very truly yours,

W. B. Macey  
Secretary - Director

WBM:mr

*Air Mail - Special*

MAIN OFFICE 000  
J. M. HERVEY 1874-1053  
HIRSH M. DOW  
CLARENCE E. HINKLE  
W. E. BONDURANT  
GEORGE H. HUNKER, JR.  
WILLIAM C. SCHAUER  
HOWARD C. BRATTON  
S. B. CHRISTY IV

LAW OFFICES

HERVEY, DOW & HINKLE

FIRST NATIONAL BANK BUILDING

ROSWELL, NEW MEXICO

TELEPHONE 2160  
L.O. 3

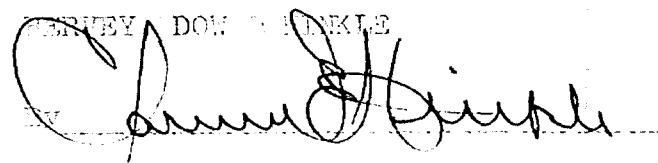
Mr. Bill Macey, Executive Secretary  
New Mexico Oil Conservation Commission  
Capitol Building  
Santa Fe, New Mexico

Re: Case No. 749 - Application  
of Humble Oil & Refining  
Company for Approval of the  
Huapacho Unit Agreement,  
Eddy County, New Mexico

Dear Mr. Macey:

The Humble has informed me that they anticipate they will have the unit agreement signed up and ready to be filed for final approval with the U.S.F.S. by the latter part of next week. As you know, it is necessary that we attach to each copy of the unit agreement, a photostatic copy of the Order of the Commission approving the same. We would, therefore, appreciate anything you can do to have the order signed approving the Huapacho Unit Agreement and would appreciate your forwarding to us at least two signed copies of the same.

Yours very truly,

HERVEY DOW & HINKLE  


CEH:mp

BEFORE THE OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR THE  
PURPOSE OF CONSIDERING:

CASE NO. 749

THE APPLICATION OF HUMBLE OIL &  
REFINING COMPANY FOR APPROVAL  
OF THE HUAPACHE UNIT AGREEMENT  
EMBRACING 33,553 ACRES, MORE OR  
LESS, EDDY COUNTY, NEW MEXICO,  
WITHIN TOWNSHIPS 23 AND 24 S.,  
RANGES 22 AND 23 E., N.M.P.M.

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Comes the undersigned, the Humble Oil & Refining Company, a  
corporation, with offices at Houston, Texas, and files herewith  
three copies of the proposed Unit Agreement for the Development  
and Operation of the Huapache Unit Area, Eddy County, New Mexico,  
and hereby makes application for the approval of said Unit Agree-  
ment as provided by law, and in support thereof, shows:

1. That the proposed unit area covered by said agreement  
embraces 33,553 acres, more or less, more particularly described  
as follows:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

T. 23 S., R. 22 E.

Secs. 1, 2, 3, 4, 5: All  
Sec. 6: Lots 1, 2, 3, 4,  $E\frac{1}{2}$ ,  $E\frac{1}{2}W\frac{1}{2}$  (All)  
Secs. 8, 9, 10, 11, 12: All  
Sec. 13: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
Sec. 14: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
Sec. 15: Lots 1, 2, 3, 4,  $N\frac{1}{2}$ ,  $N\frac{1}{2}S\frac{1}{2}$  (All)  
Secs. 16 and 17: All  
Sec. 21: Lots 1, 2, 3, 4,  $W\frac{1}{2}$ ,  $W\frac{1}{2}E\frac{1}{2}$  (All)  
Secs. 22, 23, 24, 25, 26, 27: All  
Sec. 28: Lots 1, 2, 3, 4,  $W\frac{1}{2}$ ,  $W\frac{1}{2}E\frac{1}{2}$  (All)  
Sec. 33: Lots 1, 2, 3, 6, 7, 8, 9, 10, 11, 12,  
13, 14, 15, 16, 17,  $W\frac{1}{2}NE\frac{1}{4}$ ,  $NE\frac{1}{4}NW\frac{1}{4}$ ,  $W\frac{1}{2}NW\frac{1}{4}$  (All)  
Sec. 34: Lots 1, 2, 3, 4, 5, 6, 7,  $E\frac{1}{2}$ ,  $NE\frac{1}{4}$ ,  $E\frac{1}{2}SE\frac{1}{4}$  (All)  
Secs. 35 and 36: All

T. 24 S., R. 22 E.

Sec. 1: Lots 1, 2, 3, 4, 5, 6, 7,  $SW\frac{1}{4}$ ,  $W\frac{1}{2}SE\frac{1}{4}$ ,  
 $SW\frac{1}{4}NE\frac{1}{4}$ ,  $S\frac{1}{2}NW\frac{1}{4}$  (All)  
Sec. 2: Lots 1, 2, 3, 4,  $S\frac{1}{2}NE\frac{1}{4}$ ,  $S\frac{1}{2}$  (All)  
Sec. 3: Lots 1, 2, 3, 4,  $S\frac{1}{2}NE\frac{1}{4}$ ,  $S\frac{1}{2}$  (All)  
Sec. 4: Lots 1, 2, 3, 4,  $S\frac{1}{2}NE\frac{1}{4}$ ,  $S\frac{1}{2}$  (All)  
Sec. 9:  $NE\frac{1}{4}$   
Secs. 10 and 11: All  
Sec. 12: Lots 1, 2, 3, 4,  $NE\frac{1}{4}$ ,  $W\frac{1}{2}$  (All)  
Sec. 13: Lots 1, 2, 3, 4,  $NE\frac{1}{4}$ ,  $W\frac{1}{2}$  (All)



Sec. 14: All  
 Sec. 15: NE $\frac{1}{4}$   
 Sec. 23: E $\frac{1}{2}$   
 Sec. 24: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)  
 Sec. 25: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)  
 Sec. 34: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)

T. 23 S., R. 23 E.

Sec. 15: Lots 3,4, E $\frac{1}{2}$ SW $\frac{1}{4}$   
 Sec. 30: Lots 1,2,3,4, E $\frac{1}{2}$ W $\frac{1}{2}$   
 Sec. 31: Lots 1,2,3,4,5, E $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$

T. 24 S., R. 23 E.

Sec. 5: Lots 1,2,3,4, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$  (All)  
 Sec. 6: Lots 1,2,3,4,5,6,7, SE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ ,  
 SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$  (All)  
 Sec. 7: Lots 1,2,5,6,7, E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$  (All)  
 Sec. 8: All  
 Secs. 15 and 17: All  
 Sec. 18: Lots 1,2,5,6,7,8,9,10,11,12, NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$  (All)  
 Sec. 19: Lots 1,2,3,4, E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$  (All)  
 Secs. 20 and 21: All  
 Sec. 22: W $\frac{1}{2}$   
 Secs. 27, 28, 29: All  
 Sec. 30: Lots 1,2,3,4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$  (All)  
 Sec. 31: Lots 1,2,3,4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$  (All)  
 Secs. 32, 33, 34: All

2. That <sup>of</sup>the lands embraced within the proposed unit area, 29,268.92 acres or 75%, are federal lands, 7,354.76 acres or 19%, are lands of the State of New Mexico, and 2,037.41 acres or 5%, are fee or privately owned lands. That said area has heretofore, on April 1, 1954, been designated by the Acting Director of the United States Geological Survey as an area suitable and proper for unitization, a copy of said designation being attached hereto, made a part hereof and for purposes of identification marked Exhibit A.

3. That applicant is informed and believes, and upon such information and belief, states: That the proposed unit area covers a substantial part of all of the geological features involved, and in the event of the discovery of oil or gas thereon, that said unit agreement will permit the producing area to be developed and operated in the interest of conservation and the prevention of waste of the unitized substances.

4. That the Humble Oil & Refining Company is designated as unit operator in said unit agreement, and as such is given authority under the terms thereof to carry on all operations necessary for the development and operation of the unit area for oil and gas.

subject to all applicable laws and regulations. That said unit agreement provides for the commencement of a test well for oil and gas upon some part of the lands embraced in the unit area within six months of the effective date of said unit agreement and for the drilling thereof with due diligence, until all formations to the top of the basement complex have been tested or until at a lesser depth, unitized substances shall be discovered capable of being produced in paying quantities; provided, however, operator is not required in any event, to drill said well to a depth in excess of 11,000 feet.

5. That said unit agreement is in substantially the same form as unit agreements heretofore approved by the Commissioner of Public Lands of the State of New Mexico and by the New Mexico Oil Conservation Commission, and it is believed that in the event oil or gas in paying quantities is discovered on the lands within the unit area, that the field or area can be developed more economically and efficiently under the terms of said agreement, to the end that the maximum recovery will be obtained, and that said unit agreement is in the interest of the conservation of oil and gas and the prevention of waste as contemplated by the New Mexico Oil Conservation Commission statutes.

6. That application is being made for the approval of said unit agreement by the Commissioner of Public Lands of the State of New Mexico.

7. That upon an order being entered by the New Mexico Oil Conservation Commission approving said unit agreement and after approval thereof by the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, an approved copy thereof will be filed with the New Mexico Oil Conservation Commission.

WHEREFORE, the undersigned applicant respectfully requests that a public hearing be held on the matter of the approval of said unit agreement and that upon said hearing, said unit agreement be

approved by the New Mexico Oil Conservation Commission as being  
in the interest of conservation and prevention of waste.

DATED this the 14<sup>th</sup> day of June, 1934.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By

George Haldron





**RESEARCH**

The text of the said agreement follows the standard form with modifications heretofore approved as applicable to State of New Mexico lands. Other minor modifications therein have been accepted in other tracts and are considered acceptable. Certain other modifications deemed desirable are indicated in red pencil and by attached rider. One copy of packet is returned herewith, one copy is being furnished the Supervisor, and one copy is retained.

In the absence of any objections not now apparent, a duly executed agreement identical to the attached form will be approved if submitted in appropriate status within a reasonable period of time. However, notice is hereby given that the right is reserved to deny approval of any executed agreement submitted which, in the Survey's opinion, does not have the full commitment or sufficient funds to afford effective control of unit operations. When the executed agreement is transmitted to the Supervisory for approval, include the latest status of all Federal coverage showing the current record cover of all insured losses and the current status of all losses collections, if any.

**Very truly yours,**

Thomas B. Foley

[illegible]

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

BEFORE THE OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR THE  
PURPOSE OF CONSIDERING:

CASE 749

THE APPLICATION OF HUMBLE OIL &  
REFINING COMPANY FOR APPROVAL  
OF THE HUAPACHE UNIT AGREEMENT  
EMBRACING 38,658 ACRES, MORE OR  
LESS, EDDY COUNTY, NEW MEXICO,  
WITHIN TOWNSHIPS 23 and 24 S.,  
RANGES 22 and 23 E., N.M.P.M.

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Comes the undersigned, the Humble Oil & Refining Company, a corporation, with  
offices at Houston, Texas, and files herewith three copies of the proposed Unit  
Agreement for the Development and Operation of the Huapache Unit Area, Eddy County,  
New Mexico, and hereby makes application for the approval of said Unit Agreement as  
provided by law, and in support thereof, shows:

1. That the proposed unit area covered by said agreement embraces 38,658  
acres, more or less, more particularly described as follows:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

T. 23 S., R. 22 E.

Secs. 1, 2, 3, 4, 5: All  
Sec. 6: Lots 1,2,3,4, E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$  (All)  
Secs. 8,9,10,11,12: All  
Sec. 13: Lots 1,2,3,4, N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$  (All)  
Sec. 14: Lots 1,2,3,4, N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$  (All)  
Sec. 15: Lots 1,2,3,4, N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$  (All)  
Secs. 16 and 17: All  
Sec. 21: Lots 1,2,3,4, W $\frac{1}{2}$ , W $\frac{1}{2}$ E $\frac{1}{2}$  (All)  
Secs. 22,23,24,25,26,27: All  
Sec. 28: Lots 1,2,3,4, W $\frac{1}{2}$ , W $\frac{1}{2}$ E $\frac{1}{2}$  (All)  
Sec. 33: Lots 1,2,5,6,7,8,9,10,11,12  
13,14,15,16,17, W $\frac{1}{2}$  NE $\frac{1}{4}$ , NE $\frac{1}{4}$  NW $\frac{1}{4}$ , W $\frac{1}{2}$  NW $\frac{1}{4}$  (All)  
Sec. 34: Lots 1,2,3,4,5,6,7, E $\frac{1}{2}$ , NW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$  (All)  
Secs. 35 and 36: All

T. 24 S., R. 22 E.

Sec. 1: Lots 1,2,3,4,5,6,7, SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ ,  
SW $\frac{1}{4}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$  (All)  
Sec. 2: Lots 1,2,3,4, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$  (All)  
Sec. 3: Lots 1,2,3,4, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$  (All)  
Sec. 4: Lots 1,2,3,4, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$  (All)  
Sec. 9: NE $\frac{1}{4}$   
Secs. 10 and 11: All  
Sec. 12: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)  
Sec. 13: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)  
Sec. 14: All

Sec. 15: NE $\frac{1}{4}$   
Sec. 23: E $\frac{1}{2}$   
Sec. 24: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)  
Sec. 25: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)  
Sec. 36: Lots 1,2,3,4, W $\frac{1}{2}$ E $\frac{1}{2}$ , W $\frac{1}{2}$  (All)

T. 23 S., R. 23 E.

Sec. 19: Lots 3,4, E $\frac{1}{2}$  SW $\frac{1}{4}$   
Sec. 30: Lots 1,2,3,4, E $\frac{1}{2}$ W $\frac{1}{2}$   
Sec. 31: Lots 1,2,3,4,5, E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$

T. 24 S., R. 23 E.

Sec. 5: Lots 1,2,3,4, S $\frac{1}{2}$ N $\frac{1}{2}$ , S $\frac{1}{2}$  (All)  
Sec. 6: Lots 1,2,3,4,5,6, & 7, SE $\frac{1}{4}$  E $\frac{1}{2}$ SW $\frac{1}{4}$   
SE $\frac{1}{4}$ NW $\frac{1}{4}$ ; S $\frac{1}{2}$ NE $\frac{1}{4}$  (All)  
Sec. 7: Lots 1,2,5,6,7, E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$  (All)  
Sec. 8: All  
Secs. 16 and 17: All  
Sec. 18: Lots 1,2,5,6,7,8,9,10,11,12, NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$  (All)  
Sec. 19: Lots 1,2,3,4, E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$  (All)  
Secs. 20 and 21: All  
Sec. 22: W $\frac{1}{2}$   
Secs. 27, 28, 29: All  
Sec. 30: Lots 1,2,3,4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$  (All)  
Sec. 31: Lots 1,2,3,4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$  (All)  
Secs. 32, 33, 34: All

2. That of the lands embraced within the proposed unit area, 29,268/92 acres or 76%, are federal lands, 7,354.76 acres or 19% are lands of the State of New Mexico, and 2,037.41 acres or 5%, are fee or privately owned lands. That said area has heretofore, on April 1, 1954, been designated by the Acting Director of the United States Geological Survey as an area suitable and proper for unitization, a copy of said designation being attached hereto, made a part hereof and for purposes of identification marked Exhibit A.

3. That applicant is informed and believes, and upon such information and belief, states: That the proposed unit area covers a substantial part of all of the geological features involved, and in the event of the discovery of oil or gas thereon, that said unit agreement will permit the producing area to be developed and operated in the interest of conservation and the prevention of waste of the unitized substances.

4. That the Humble Oil & Refg. Company is designated as unit operator in said unit agreement, and as such is given authority under the terms thereof to carry on all operations necessary for the development and operation of the unit area for oil and gas, subject to all applicable laws and regulations. That said unit agreement provides for the commencement of a test well for oil and gas upon some part of the lands embraced in the unit area within six months of the effective date of said unit agreement and for the drilling thereof with due diligence, until all formations to the top of the basement complex have been tested or until at a lesser depth, unitized substances shall be discovered capable of being produced in paying quantities; provided, however, operator is not required in any event, to drill said well to a depth in excess of 11,000 feet.

5. That said unit agreement is in substantially the same form as unit agreements heretofore approved by the Commissioner of Public Lands of the State of



New Mexico and by the New Mexico Oil Conservation Commission, and it is believed that in the event oil or gas in paying quantities is discovered on the lands within the unit area, that the field or area can be developed more economically and efficiently under the terms of said agreement, to the end that the maximum recovery will be obtained, and that said unit agreement is in the interest of the conservation of oil and gas and the prevention of waste as contemplated by the New Mexico Oil Conservation Commission statutes.

6. That application is being made for the approval of said unit agreement by the Commissioner of Public Lands of the State of New Mexico.

7. That upon an order being entered by the New Mexico Oil Conservation Commission approving said unit agreement and after approval thereof by the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, an approved copy thereof will be filed with the New Mexico Oil Conservation Commission.

WHEREFORE, the undersigned applicant respectfully requests that a public hearing be held on the matter of the approval of said unit agreement and that upon said hearing, said unit agreement be approved by the New Mexico Oil Conservation Commission as being in the interest of conservation and prevention of waste.

DATED this the 14th day of June, 1954.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

SAID PLAT on file O. C. C. Santa Fe, New Mexico

NEW MEXICO OIL & GAS ENGINEERING COMMITTEE  
HOBBS, NEW MEXICO  
June 30, 1954

August 1, 1968

741

In re: Termination of the Huapache Unit  
No. 14-08-001-1668  
Eddy County, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

State of New Mexico ✓  
Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

ATTENTION: Mr. Ted Bilberry, Director  
Oil and Gas Department

ATTENTION: Mr. A. L. Porter, Jr.  
Secretary-Director

Gentlemen:

In connection with the termination of the Huapache Unit, Eddy County, New Mexico, we are enclosing to each of you one copy of the approved Certificate of Termination. As you will note, such termination was effective as of July 23, 1968.

In closing our files on this unit, we wish to take this opportunity to thank each of you for your cooperation and support of our endeavors in this area.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY: *John S. Cron*  
John S. Cron

JSC:fd  
Encls.

50 AUG 2 1968

RECEIVED  
JUL 22 8 57 AM '68

CERTIFICATE OF APPROVAL

OF

TERMINATION OF HUAPACHE UNIT AGREEMENT  
BY COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

STATE LAND OFFICE  
SANTA FE, N.M.

The undersigned Commissioner of Public Lands, State of New Mexico, does hereby approve the attached Termination of Unit Agreement for the Development and Operation of the Huapache Unit Area, Eddy County, New Mexico, No. 14-08-001-1668.

Dated this the 23rd day of July, 1968,

Effective July 23rd, 1968.

  
COMMISSIONER OF PUBLIC LANDS

CERTIFICATE OF APPROVAL

OF

TERMINATION OF HUAPACHE UNIT AGREEMENT  
NEW MEXICO OIL CONSERVATION COMMISSION

~~Secretary~~  
Director

The undersigned Director of the New Mexico Oil Conservation Commission does hereby approve the attached Termination of Unit Agreement for the Development and Operation of the Huapache Unit Area, Eddy County, New Mexico, No. 14-08-001-1668.

Dated this the 23rd day of July, 1968,

Effective July 23rd, 1968.

  
NEW MEXICO OIL CONSERVATION COMMISSION

CERTIFICATE OF APPROVAL

OF

TERMINATION OF HUAPACHE UNIT AGREEMENT  
BY DIRECTOR, UNITED STATES GEOLOGICAL SURVEY

The undersigned Director of the United States Geological Survey does hereby approve the attached Termination of Unit Agreement for the Development and Operation of the Huapache Unit Area, Eddy County, New Mexico, No. 14-08-001-1668.

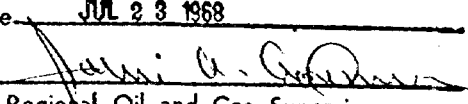
Dated this the \_\_\_\_\_ day of \_\_\_\_\_, 1968,

Effective July \_\_\_\_\_, 1968.

\_\_\_\_\_  
DIRECTOR, UNITED STATES GEOLOGICAL SURVEY

Approved JUL 29 1968

Effective JUL 23 1968

  
Regional Oil and Gas Supervisor  
U. S. GEOLOGICAL SURVEY

68 AUG 2 AM 8

Case No.

749

---

Application, Transcript,  
Small Exhibits, Etc.

## EXHIBIT "C"

### Second Geological Report on the Huapache Area Eddy County, New Mexico

#### Introduction and History

The Huapache Federal Exploratory Unit is located in southwestern Eddy County, New Mexico, and was approved April 1, 1954. Since approval, ten exploratory wells have been drilled within the unit with one well being drilled just outside the unit area. The latest well, the No. 10 Huapache, has resulted in a Pennsylvanian gas discovery from the Morrow formation.

The Huapache Unit No. 10 (located 1980' from the north and west lines, Section 10, T-23-S, R-22-E), drilled to a total depth of 10,150', in Mississippian shale. The well was completed as a gas discovery from a 12-foot Morrow sand zone between 9932-42 feet and potential for 5.7 MMCF gas per day + 6 BW.

Exhibits accompanying this geologic report are:

- (1) A structure map contoured on top of the producing Morrow sand (designated "Y" zone).
- (2) A "Y" zone isolith map.
- (3) An overlay of the "Y" zone porosity.
- (4) A stratigraphic cross section showing "Y" zone relationship from the Indian Basin area to the Huapache area.
- (5) A stratigraphic cross section of the Nos. 10 and 2 Huapache wells showing Wolfcampian zones that yielded gas on three DST's in the No. 10 well.
- (6) A multi-point back pressure test for the No. 10 Huapache well.
- (7) Form 9-330, a log of the No. 10 Huapache giving production and supplemental information such as DST's, etc.
- (8) A gas analysis report.

#### Lithology of Pennsylvanian Morrow Gas Zone

The Morrow sand pay ("Y" zone) has a thickness of from 10 to 50 feet (see cross section attached) and consists predominately of fine grained, tight quartzitic sandstone interbedded with gray-black silty shale and some silty limestone. This zone exhibits blanket characteristics over most of Eddy County. Porosity development, however, is confined to certain trends which indicate the lenticular nature of the sand. The No. 10 Huapache had a 12-foot porous section while the No. 2 well, located 2 1/4 miles southeast, had a 25-foot sand interval with zero feet of porosity. Porosity calculations for the pay zone are around 5-8%.

#### Structure in the Huapache Area

Out of the ten wells drilled in the unit, only two, the Nos. 10 and 2, have been drilled on the downthrown side of the Huapache fault. Our geologic interpretation, confirmed by the dipmeter, indicates that both wells are on a structural ridge that parallels the fault. The discovery well is 34 feet high structurally to the No. 2 well, 2 1/4 miles to the southeast. As can be seen from the sand isopach and porosity overlay, the productive limits of the reservoir seem to be confined to a local area, possibly over a small structure. This could account for the thinning in the "Y" zone that occurs between the two wells. It is believed that the zone that produces in our well is the same one that produces in the prolific Indian Basin field, ten miles northeast.

#### Other Significant Gas Shows

Aside from the Pennsylvanian gas, three zones in the Permian Wolfcamp were encountered which yielded fair amounts of gas on drillstem tests. These zones appear to be highly erratic and were difficult to correlate with the No. 2 well. The test results on these zones are:

DST #5 (10' sandstone stringer)	Gas to surface 5" FARO 1200 MCFGD SIP 3252-3048
DST #6 (12' porous ls)	Gas to surface 3" FARO 556.6 MCFGD SIP 3010-2862
DST #7 (10' porous ls)	Gas to surface 4" FARO 1000 MCFGD SIP 2835-1596

Because of the thinness of these zones and as there are no nearby gas wells producing from these intervals, the economic importance of these shows cannot be evaluated at this time.

#### Economics

Our No. 10 well was perforated (9932-42) after reaching a TD of 10,150' in the Mississippian shale. After an acid-frac treatment the well potentialized CAOF for 5.7 MMCFGPD + 6 BW. By using the highest porosity value arrived at from the sonic log (8%) and 12' of net pay (indicated by micro-log) 3.7 billion cubic feet of recoverable gas per 640 acres was calculated. At the rate of 15¢ per thousand cubic feet, one well on 640-acre spacing could gross \$555,000. The cost of our initial well is approximately \$270,000.

Conclusions

Humble Oil & Refining Company requests the approval of a one-section participating area as defined in Exhibit "A" for the following reasons:

- (1) Present geological information covering the area does not definitely indicate the probable limits of the gas accumulation or productive area, but it is believed to be sufficient that the proposed one-section participating area is reasonably proven productive of gas in paying quantities and that the existing well will drain the proposed 640-acre area.
- (2) As shown herein above, the calculated reserves constitute the existing well as a well capable of producing gas in paying quantities.
- (3) There is at present no available market for gas. However, when a market is found and after the discovery well has a short production history, more reservoir data will be obtained which will enable us to give a more comprehensive evaluation for future development in the area.

It is our belief that the approval of said participating area will be in the interest of conservation and will lead to a scientific and orderly development of the producing area.

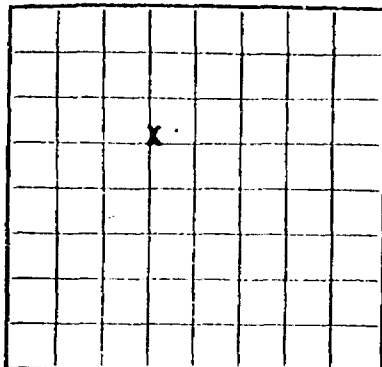
Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By: *C L Robinson*  
C. L. Robinson

CLR/dlm

Form 9-330

Budget Bureau No. 42-R366.4.  
Approval expires 12-31-60.U. S. LAND OFFICE Las Cruces  
SERIAL NUMBER 066097  
LEASE OR PERMIT TO PROSPECT .....

LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company HUMBLE OIL & REFINING COMPANY Address Box 2347, Hobbs, New Mexico  
Lessor or Tract Huapache Unit Field Huapache Area W/G State New Mexico  
Well No. 10 Sec. 10 T. 23-S R. 22-E Meridian NMPM County Eddy  
Location 1980 ft. S. of North Line and 1980 ft. E. of West Line of Section 10 Elevation 4528  
(Derrick base relative to sea level)  
The information given herewith is a complete and correct record of the well and all work done thereon  
so far as can be determined from all available records. ORIGINAL  
Signed ARVIN D. EADY SIGNED

Date May 23, 1963 Title Agent

The summary on this page is for the condition of the well at above date.

Commenced drilling January 27, 19 63 Finished drilling April 21, 19 63  
Distance from RDB to casinghead OIL OR GAS SANDS OR ZONES Date Well Completed: 5-21-63  
Flange 18.00 Top of RDB 1.00  
T.D. 10,150 P.D. 10,110 (Denote gas by G)

No. 1, from 9932 to 9942 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>10-3/4</u>	<u>40.5</u>	<u>8rd</u>	<u>Unk</u>	<u>933</u>	<u>HOWCO</u>	<u>cut and pulled from</u>	<u>9932</u>	<u>9942</u>	<u>Surface</u>
<u>4-1/2</u>	<u>11.6</u>	<u>8rd</u>	<u>CFI</u>	<u>10,132</u>	<u>HOWCO</u>	<u>cut and pulled from</u>	<u>9932</u>	<u>9942</u>	<u>Oil String</u>
<u>2-3/8</u>	<u>4.70</u>	<u>X-line &amp; 8rd</u>	<u>Unk</u>	<u>9,738</u>	<u>CFI</u>	<u>cut and pulled from</u>	<u>9932</u>	<u>9942</u>	<u>Tubing</u>

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
					Top of cmt. by T.S. or Cmt. circulated, calculated.
<u>10-3/4</u>	<u>954</u>	<u>700</u>	<u>Pumped</u>	<u>—</u>	<u>6,000 by temp. survey.</u>
<u>4-1/2</u>	<u>10,150</u>	<u>700</u>	<u>Pumped</u>	<u>—</u>	

MARK



FOLD

## PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from ..... 0 ..... feet to ..... 10,150 ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

## DATES

Completed as a gas well shut in—no .....  
 Put to producing ..... May 18 ..... 1963 .....  
 May 23 ..... 1963 .....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... %  
 emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....

Absolute open flow potential 5.7 MCF/D Gallons No condensate or 6 bbls. of water.  
 If gas well, cu. ft. per 24 hours

Rock pressure, lbs. per sq. in. ....

## EMPLOYEES

Wayne Mize ..... Driller C. L. Hearington ..... Driller  
 James Biles ..... Driller ..... Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2200	2200	Lime
2200	2931	731	Dolomite and Sand
2931	3471	540	Lime
3471	3998	527	Lime and Chert
3998	4539	541	Lime
4539	5162	623	Lime and Shale
5162	5529	367	Lime
5529	5715	186	Lime and Sand
5715	5850	135	Dolomite
5850	8232	2382	Lime and Shale
8232	8446	214	Lime
8446	9565	1119	Lime and Shale
9565	10,150	585	Lime, Shale and Sand
	T.D.		
			Formation Tops:
			Cherry Canyon 595
			Bone Spring 1178
			Dean SS. equiv. 5429
			Wolfcamp 5671
			Penn. Cisco 7150
			Canyon 7410
			Strawn 8192
			Bend 9206
			Morrow 9572
			Chester 10088

(OVER)

18—42094-4

# SUPPLEMENTAL WELL INFORMATION

NAME OF WELL AND NUMBER Huapache Unit Well No. 10

POOL COMPLETED IN Morrow Sand.

PERFORATED INTERVAL 9932-9942; 1 shot per foot by McCullough.

STIMULATIONS: Acidized perforations 9932-9942 with 500 gallons of regular 15% N.E. acid with an average injection rate of 2 BPM. Acidized by Halliburton on 5-1-63. Frac perforations 9932-9942 with 10,000 gallons slick jelled 5% acid with friction reducing agent and 10,000# sand with an average injection rate of 9.1 BPM. Treatment by Western on 5-9-63.

## POTENTIAL TEST

DATE	CHOKE SIZE	HOURS TESTED	BBLS/DAY		% OF BS&W	GAS MCF /DAY	Cond. GOR	TBG PR OR S P M	CSG PR OR L. STROKE	CORRECTED GRAVITY
			FLUID	OIL						
5-7-63	Absolute	Open Flow Potential	-	-	-	2,500	None	-	-	-
5-12-63	Absolute	Open Flow Potential	-	-	-	5,700	None	-	-	-

reservoir pressure.

\*Shut in pressure did not reach static

## DRILL STEM TESTS

NO.	RESERVOIR	INTERVAL TESTED		PRESSURES			RECOVERY - FEET	RUN BY
		FROM	TO	I. SI.	F. FLOW.	F. SI.		
1	Bone Spring	1602	1664	350	350	350	750' of fresh water	Johnston
2	Bone Spring	2040	2074	23	13	13	5' of drilling fluid	Cook
3	Bone Spring	2080	2200	*127	67	*95	5' of drilling mud	Johnston
4	Wolfcamp	6109	6150	91	39	75	15' of drilling fluid	Cook
5	Wolfcamp	6697	6710	3253	Unknown	3048	2' of distillate	Unknown
6	Wolfcamp	6785	6863	3029	111	2873	124' of heavy gas cut mud	Cook
7	Wolfcamp	6914	6970	2835	Unknown	1596	90' gas cut drilling mud	Johnston
8	Canyon ?	7770	7826	2941	492	2837	780' Sulphur wtr. 330' drlg mud	Cook

CORES: Core #1 from 6710 to 6761.

LOGS: Gamma Ray Sonic-Schlumberger-from surface to 10,150 on 4-22-63.  
Dipmeter-Schlumberger-from 5700 to 10,150 on 4-22-63.  
Dual Induction-Laterolog-Schlumberger-from 954 to 10,150 on 4-22-63.  
Micro-Proximity with Caliper-Schlumberger-from 954 to 10,150 on 4-22-63.

UNSUCCESSFUL COMPLETION ATTEMPTS: FROM None TO None  
(SEE DAILY DRILLERS REPORTS FOR SQUEEZES OR BRIDGES.)

## DRILL STEM TESTS (CONTINUED)

9	Canyon	8012	8090	3008	618	2784	180' Drlg mud. 960' Sulphur wtr.	Cook
10	Strawn ?	8462	8520	253	Unknown	375	150' Slightly GC drlg mud	Unknown
11	Bend	9688	9732	*602	72	*1005	20' Slightly GC mud	Johnston
12	Morrow	9920	10,150	-	-	-	Packer failed	-
13	Morrow	9885	10,150	3799	1214	3749	390' heavy gas cut mud	Cook

TO: DIRECTOR, UNITED STATES GEOLOGICAL SURVEY,  
WASHINGTON, D. C.

FROM: HUMBLE OIL & REFINING COMPANY, EXPLORATION DEPARTMENT,  
ROSWELL, NEW MEXICO

SUBJECT: REPORT ON THE GEOLOGY OF THE HUAPACHE MONOCLINE,  
EDDY COUNTY, NEW MEXICO

PURPOSE: THIS REPORT IS SUBMITTED TO SHOW THE SURFACE AND  
POSTULATED SUBSURFACE GEOLOGY OF THE HUAPACHE  
MONOCLINE AND TO DEMONSTRATE THE NEED OF FORMING A  
FEDERAL EXPLORATION UNIT TO TEST THE AREA. IT IS  
BELIEVED THAT THE GEOLOGIC CONDITIONS ARE SUCH THAT  
THE ONLY REASONABLE METHOD OF EXPLORATION AND  
DEVELOPMENT IS BY MEANS OF AN APPROVED FEDERAL UNIT.

DATE: AUGUST 20, 1953

*copy*

REPORT ON THE HUAPACHE MONOCLINE AREA

EDDY COUNTY, NEW MEXICO

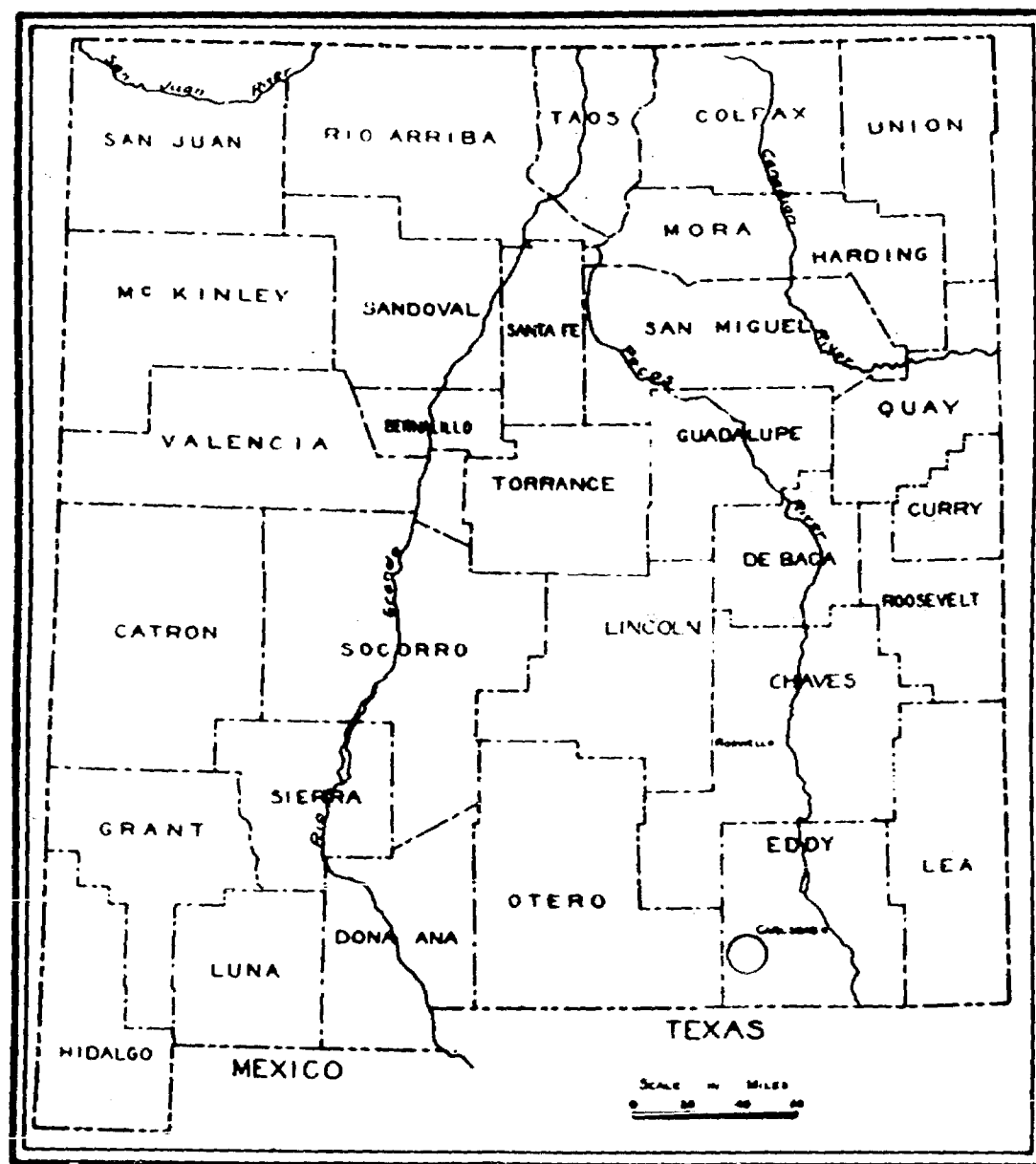


Figure 1 - Index Map of New Mexico

Showing the approximate location of the proposed Huapache Unit.

## REPORT ON THE HUAPACHE MONOCLINE AREA

### EDDY COUNTY, NEW MEXICO

#### INTRODUCTION

The Huapache Monocline is a major structural and physiographic feature located in central west Eddy County. The structure is approximately twenty miles long, with a northwest-southeast strike and dips 8 to 12% to the northeast. The "Monocline" appears to terminate to the southeast in the Capitan reef of the Carlsbad Caverns National Park in the south part of T. 24 S., R. 23 E. To the north this feature appears to die out in T. 21 S., R. 20 E. The approximate width of the dip surface is from one and one-half to two miles.

The Huapache Unit as defined by this structure is approximately five to six miles wide and about 14 miles long with the axis parallel to the "Monocline". It is bounded on the north end by the Continental Oil Company's "East Texas Hill" unit and on the south end by the Carlsbad Caverns National Park.

#### SUBSURFACE STRATIGRAPHY

The stratigraphy of the area of the Huapache Monocline can best be described as found in two wells, the Continental No. 1 Bass and the Magnolia No. 1 State "W". The No. 1 Bass is structurally located about one mile west and on the updip side of the "Monocline" in Sec. 5, T. 22 S., R. 21 E., while the Magnolia State "W" is located on the down-dip or basinward side of the "Monocline" in Sec. 16, T. 21 S., R. 22 E.

The No. 1 Bass from total depth at 5,889' to surface at 5,511' above sea level showed the following section:

Ellenburger - 799' thick (base not penetrated); cream, tan, and brown dolomite. Lower 150' shows some red dolomite. Upper 100' contains small amounts of chert. Crystallinity, fine to medium.

Montoya - 380' thick; cream, tan, and brown dolomite with traces of cream to tan limestone. Crystallinity, fine to medium.

Silure-Devonian - 610' thick; white, cream, and tan dolomite; white and cream limestone; medium crystalline; limestone probably occurs as thin beds.

Mississippian - 10' Woodford gray-brown shale and 280' tan and brown limestone; upper 70' very siliceous or cherty. Crystallinity, very fine to dense.

Page two

Huaco - 80' tan and brown finely crystalline limestone and dolomite, shaley near base.

Abq - 870' thick; tan and brown dolomite with a few thin beds of green and gray shale.

Tubb - 520' thick; lower 300' tan to brown finely crystalline dolomite; upper 220' sandy with some massive sand beds near the top.

San Angelo - 1,155' thick; cream, tan, and brown finely crystalline dolomite; thin sand beds throughout section; thin beds of gypsum near top.

San Andres - 1,185' thick; cream and tan finely crystalline dolomite. Small amounts of chert are found in the dolomite, and thin beds of gypsum are found in the upper 300' of the dolomite. It is estimated that 200' of San Andres has been removed by erosion.

Magnolia No. 1 State "W" from a total depth of 11,313' to the surface at 4,464' showed the following section:

Pre-Cambrian - 75' of igneous rock believed to be pre-Cambrian.

Cambrian - 235' thick; 25' Bliss sandstone at base; 70' of sand and sandy dolomite above Bliss; 140' of cream tan and pink medium crystalline dolomite.

Ellenburger - 410' thick; cream and light tan fine to medium crystalline dolomite.

Monterey - 340' thick; cream tan and brown finely crystalline to finely granular limestone.

Siluro-Devonian - 580' thick; white to light cream crystalline to coarsely crystalline dolomite; thin chert beds in the upper 50'.

Mississippian - 425' thick; 270' of tan and brown cherty siliceous limestone; 155' of brown shaley lime interbedded with thin sand stringers.

Band - 405' thick; predominantly sand with some thick gray shale beds near the base, and brown oolitic beds near the top.

Strawn - 670' thick; mostly tan and brown limestone, dense and shaley. Many thin sand and shale beds.

Page three

Canven - 1,450' thick; tan and brown shaley limestone with thin beds of sand and shale beds in lower 1,000'. Upper 450' predominantly sand with thin shale and limestone beds.

Glaze - 880' thick; lower 300' sand with some shale. Upper 580' cream, tan, and brown dense limestone with thin sand and gray shale stringers.

Permian Wolfcamp - 840', tan and brown limestone and shale with small amounts of brown limestone near the top.

Abc - 1,200' thick; pale cream to tan finely crystalline to granular limestone.

Tubb - 630' thick; 500' of tan and brown crystalline and granular dolomite; and 130' of fine dolomitic sand near top.

San Angelo - 1,680' thick; cream and tan crystalline limestone with few scattered sand beds. Upper 300' sandy and anhydritic.

San Andres - 1,335' thick; cream and tan finely crystalline to dense dolomite; some beds cherty.

Whitehorse - 255' thick; cream finely crystalline dolomite with some sand beds.

The most important fact regarding the stratigraphy of the two example wells is that the Continental No. 1 Bass has no Pennsylvanian sediments while the Magnolia No. 1 State "W" has 3,405' of rocks identified as Pennsylvanian. It is also of interest that the Hueco in the Bass was only 80' thick and the Hueco in the State "W" was 840' thick. A total of 4,990 feet of sediments are missing in the Continental No. 1 Bass that are present in the Magnolia No. 1 State "W" in the geologic interval from the top of the Permian San Angelo to the top of the Mississippian.

#### SUBSURFACE STRUCTURE

The surface features of the "Monocline" were briefly described in the introduction. An attempt will be made to outline the subsurface possibilities or the probable structure at depth even though subsurface control is sparse.

It can be determined from subsurface data that the age of the predominant initial movement was late Mississippian or early Pennsylvanian. This is indicated by the absence of Pennsylvanian rocks in the Continental No. 1 Bass. The very thin section of Wolfcamp rocks indicates that the effect of orogeny was present in Wolfcamp time. The Permian sediments are thinner on top of the "Monocline" than on the Basin side. This could indicate some downwarping of the Basin in the middle and late Permian or might indicate draping with thicker and faster sedimentation on the Basin side.



Page four

The Permian age "Monocline" is believed to be the draping and downwarping of a pre-Permian (down to the basin normal) fault. This would be the most reasonable explanation of this tremendous feature.

#### ECONOMIC SIGNIFICANCE

The economic possibilities of the Huapache Monocline in relation to the accumulation of oil are many.

(1) The geologic section as found in the Huapache Monocline produces oil in the Permian Basin from many horizons; notably the San Andres, San Angelo, Tubb, Abo, Wolfcamp, Pennsylvanian, Siluro-Devonian, and Ellenburger.

(2) The reservoirs related to this type of structure can be many and varied.

(a) Stratigraphic traps in the pre-Pennsylvanian against a fault plane.

(b) Pinch out of sands or porous limes in the Pennsylvanian.

(c) Shoestring sands or off-shore bars (even Pennsylvanian beach dune sands might be productive).

(d) The possibility of barrier reefs lying off a Pennsylvanian shore line are very good.

(e) There is some possibility of small structural reversal causing reservoirs near the top of the "Monocline".

The above features relating to the "Monocline" can only be explored and developed by great cost and tremendous effort. This can be done by only one method, an approved Federal Unit.

#### PROPOSED DEVELOPMENT

If the Huapache Unit is approved, and unitization progresses to completion, Humble Oil & Refining Company will drill a test well to 11,000 feet or to granite and thoroughly test all oil and gas shows encountered. Tentatively, the location for this test has been selected to be near the southwest corner of Section 23, Township 23 South, Range 22 East. In the event the initial test is dry, Humble will continue with additional exploratory work, using information derived from the first well. This work will consist of further geological studies and/or geophysical surveying, and if the results of these studies indicate it is justified, an additional exploratory well or wells will be drilled.

*Namphy*  
*Traywick*

Drawer 1857  
Roswell, New Mexico 86201

July 29, 1968

749

Mobile Oil & Refining Company  
P. O. Box 1800  
Midland, Texas 79701

Attention: Mr. John S. Cron

Gentlemen:

Termination of the Sanpacho unit agreement, Eddy County, New Mexico, was approved on July 29, 1968, effective as of July 23, 1968, pursuant to the last paragraph of Section 21 thereof.

Copies of the approval are being distributed to the appropriate Federal offices and one copy is returned herewith. You are requested to furnish notice of this approval to each party in interest.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

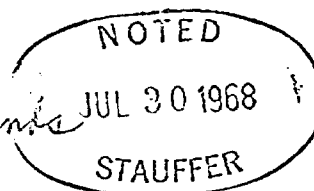
JOHN A. ANDERSON  
Regional Oil & Gas Supervisor

cc:  
Washington (w/cy. appln.)  
SEM - Santa Fe (w/cy. appln.)  
Artesia (w/cy. appln.)  
Mineral Classification

68 JUL 31 AM 2

BJShoger:bm:7-29-68

*Copy to N.M.O.C.C.*  
*" " Comm. of Pub. Lands*



OIL CONSERVATION COMMISSION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

July 23, 1968

C  
O  
P  
Y  
Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas 79701

Attention: Mr. John S. Cron

Re: Huapache Unit  
Termination  
Eddy County, New Mexico

Gentlemen:

The New Mexico Oil Conservation Commission has this date approved the termination of the Huapache Unit, Eddy County, New Mexico, effective upon approval of the United States Geological Survey.

Please furnish the Oil Conservation Commission a copy of the fully executed Certificate of Approval.

Seven copies of the Certificate of Approval are being returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/esr

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

July 19, 1968

22 JUL 1968

747

In re: Termination of Huapache Unit  
No. 14-08-001-1668  
Eddy County, New Mexico

Commissioner of Public Lands  
State Land Office  
P. O. Box 1148  
Santa Fe, New Mexico

ATTENTION: Mr. Ray D. Graham  
Assistant Director  
Oil & Gas Department

Gentlemen:

We are enclosing herewith for your approval one executed copy and two Xerox copies of termination instrument covering the Huapache Unit, Eddy County, New Mexico.

Said instrument has been executed by the following:

<u>Working Interest Owners</u>	<u>Approx. Acreage</u>	<u>Percentage of Unit</u>
Humble Oil & Refining Company	37,923.01	85.08%
Union Oil Company of California	654.82	1.48
Pan American Petroleum Corporation	280.00	.64
Monasanto Company	120.00	.27
Beard Oil Company	43.36	.09
Delbasin Corporation	1,249.56	2.80
John H. Trigg Company	958.66	2.16
Clarence E. Manion	82.42	.18
Bennett D. White	40.00	.08
Arthur E. Spiegel	161.05	.37
T. C. Stromberg	40.00	.08
William B. Barnhill	28.20	.06
Lynn V. Waggoner	40.00	.08
Hoover H. Wright	40.00	.08
Total	41,661.08	93.45%
Unleased Acreage	2,396.51	5.36%

July 19, 1968

In regard to the shut-in gas well being the Huapache Unit Well No. 10, a recent flow test performed by Coleman Engineering, Hobbs, New Mexico, on July 15 & 16, 1968, indicates tubing pressure drawn down measures (with dead weight tester) from 2948 psig to 678 psig during a 21 hrs. flow test at an average rate of 2,147 MCF/D and 87.5 BW/D. The associated bottom hole pressure drawn down was from 3717 to 1537 psig. This performance does not justify the installation of approximately 53,000 feet of gathering line or compression facility which would be required almost immediately to delivery into a 800 psi system. In view of this, the well is now considered as being non-commercial.

If you find the enclosed instrument in order, we would sincerely appreciate your securing the Commissioner's approval of same and then, to expedite matters and as a favor to us (as discussed with you in our recent telephone conversation), please secure the Conservation Commission's approval of the termination.

When approved, please forward five copies of your Certificate of Approval (or you may use the certificates attached to the termination instruments) to the United States Geological Survey. The executed copy and one Xerox copy are for the completion of your files and the other Xerox copy is for the Commission. With a copy of this letter to the United States Geological Survey, we are forwarding five executed copies of the termination instrument for their approval.

If at all possible, we would like for the termination to be effective in July, 1968. If agreeable with you, the Survey will use an effective date corresponding with the day such termination instrument is filed in their office; therefore, if you will omit the effective date from the certificate, the United States Geological Survey will insert same upon their approval and we will notify you accordingly.

If you should have any questions in regard to this matter, please let us know. Thank you very much for your cooperation in this matter.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

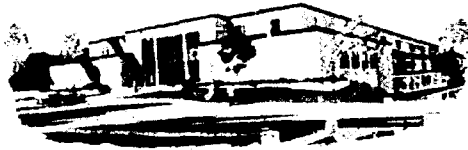
John S. Cron

JSC:cpt  
Encls.  
REGISTERED MAIL

cc: >Director, Oil Conservation Commission  
P.O. Box 2088, Santa Fe, New Mexico 87501

United States Geological Survey w/ five executed  
copies of termination instrument  
P. O. Drawer 1857, Roswell, New Mexico 88201  
Attention: Mr. John Anderson  
Regional Supervisor

State of New Mexico



Commissioner of Public Lands



GUYTON B. HAYS  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

July 23, 1968

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas 79701

Re: Huapache Unit  
TERMINATION  
Eddy County, New Mexico

ATTENTION: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands has received the ballots of approximately 75% per cent of the Working Interest Owners requesting the termination of the Huapache Unit, Eddy County, New Mexico as provided for under Section 21 of the Unit Agreement, and does hereby approve the termination effective as of the United States Geological Survey's approval.

Please furnish us the date of approval of termination by the United States Geological Survey.

We have this date acquired the Oil Conservation Commission approval and we are forwarding five (5) Certificates of Termination with the approval of the Commissioner and the Commission to the United States Geological Survey as stated in your letter. We have left the effective date blank on the Certificates and is to be filled in when the United States Geological Survey approves.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
Ted Bilberry, Director  
Oil and Gas Department

GBH/TB/s  
encls.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

TERMINATION OF UNIT AGREEMENT FOR THE DEVELOPMENT AND  
OPERATION OF THE HUAPACHE UNIT AREA, EDDY COUNTY  
NEW MEXICO, NO. 14-08-001-1668

RECEIVED  
JUL 22 6 57 AM '68  
STATE LAND OFFICE  
SANTA FE, N.M.

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, being the owners of more than seventy-five  
(75) per cent on an acreage basis of the working interests in and to oil  
and gas leasehold interests committed to the Unit Agreement for the develop-  
ment and operation of the Huapache Unit Area, Eddy County, New Mexico, dated  
July 1, 1954, effective September 23, 1954, heretofore approved by the New  
Mexico Oil Conservation Commission, the Commissioner of Public Lands of the  
State of New Mexico and the Director of the United States Geological Survey,  
do hereby agree to terminate said agreement in accordance with Section 21 thereof,  
subject to the approval of the said Oil Conservation Commission, said Commissioner  
of Public Lands and Director of the United States Geological Survey.

This instrument may be executed in counterparts, no one of which need  
be executed by all parties.

IN WITNESS WHEREOF, this instrument is executed by the undersigned  
parties hereto as of the respective dates set opposite their signatures.

Date June 25, 1968

HUMBLE OIL & REFINING COMPANY  
UNIT OPERATOR

BY: Bill R. Payne  
Agent and Attorney-in-Fact

APPROVED	
Desc.	AC
Acreage	AC
Int.	AC
Form	070
Trade	JLC

UNION OIL COMPANY OF CALIFORNIA

Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

PAN AMERICAN PETROLEUM CORPORATION

BY: \_\_\_\_\_

MONSANTO COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

CITIES SERVICE OIL COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this 25<sup>th</sup>  
day of June, 1968, by Buell R. Payne,  
Agent and Attorney-in-Fact of Humble Oil & Refining Company, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1969

Mary Sue Sloan  
Notary Public

MARY SUE SLOAN  
NOTARY PUBLIC IN AND FOR  
MIDLAND COUNTY, TEXAS

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Union Oil Company of California, a California  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_

Notary Public

THE STATE OF TEXAS }  
COUNTY OF TARRANT } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Pan American Petroleum Corporation, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_

Notary Public

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Monsanto Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_

Notary Public

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Cities Service Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_

Notary Public



TERMINATION OF UNIT AGREEMENT FOR THE DEVELOPMENT AND  
OPERATION OF THE HUAPACHE UNIT AREA, EDDY COUNTY  
NEW MEXICO, NO. 14-08-001-1668

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, being the owners of more than seventy-five (75) per cent on an acreage basis of the working interests in and to oil and gas leasehold interests committed to the Unit Agreement for the development and operation of the Huapache Unit Area, Eddy County, New Mexico, dated July 1, 1954, effective September 23, 1954, heretofore approved by the New Mexico Oil Conservation Commission, the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, do hereby agree to terminate said agreement in accordance with Section 21 thereof, subject to the approval of the said Oil Conservation Commission, said Commissioner of Public Lands and Director of the United States Geological Survey.

This instrument may be executed in counterparts, no one of which need be executed by all parties.

IN WITNESS WHEREOF, this instrument is executed by the undersigned parties hereto as of the respective dates set opposite their signatures.

HUMBLE OIL & REFINING COMPANY  
UNIT OPERATOR

Date \_\_\_\_\_

BY: \_\_\_\_\_  
Agent and Attorney-in-Fact

UNION OIL COMPANY OF CALIFORNIA

Date July 2, 1968

BY: John Hansen  
~~JOHN HANSEN~~ ATTORNEY IN FACT

ATTEST:

PAN AMERICAN PETROLEUM CORPORATION

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

MONSANTO COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

CITIES SERVICE OIL COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
Agent and Attorney-in-Fact of Humble Oil & Refining Company, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this 2<sup>nd</sup>  
day of July, 1968, by W. L. LANGE,  
Attorney in Fact of Union Oil Company of California, a California  
Corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1969

Edna H. Sloan EDNA H. SLOAN  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF TARRANT ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Pan American Petroleum Corporation, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Monsanto Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Cities Service Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

TERMINATION OF UNIT AGREEMENT FOR THE DEVELOPMENT AND  
OPERATION OF THE HUAPACHE UNIT AREA, EDDY COUNTY  
NEW MEXICO, NO. 14-08-001-1668

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, being the owners of more than seventy-five (75) per cent on an acreage basis of the working interests in and to oil and gas leasehold interests committed to the Unit Agreement for the development and operation of the Huapache Unit Area, Eddy County, New Mexico, dated July 1, 1954, effective September 23, 1954, heretofore approved by the New Mexico Oil Conservation Commission, the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, do hereby agree to terminate said agreement in accordance with Section 21 thereof, subject to the approval of the said Oil Conservation Commission, said Commissioner of Public Lands and Director of the United States Geological Survey.

This instrument may be executed in counterparts, no one of which need be executed by all parties.

IN WITNESS WHEREOF, this instrument is executed by the undersigned parties hereto as of the respective dates set opposite their signatures.

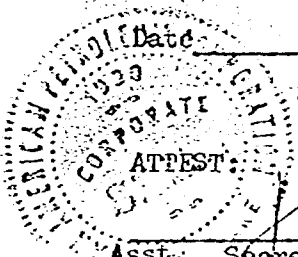
HUMBLE OIL & REFINING COMPANY  
UNIT OPERATOR

Date \_\_\_\_\_

BY: \_\_\_\_\_  
Agent and Attorney-in-Fact

UNION OIL COMPANY OF CALIFORNIA

BY: \_\_\_\_\_



Asst. Secretary  
Date July 15, 1968

PAN AMERICAN PETROLEUM CORPORATION

BY: [Signature]  
Attorney in Fact



MONSANTO COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

CITIES SERVICE OIL COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
Agent and Attorney-in-Fact of Humble Oil & Refining Company, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Union Oil Company of California, a California  
Corporation, on behalf of said corporation.

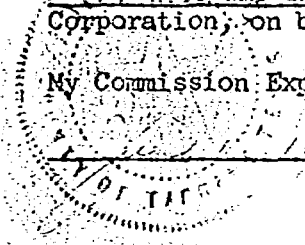
My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS }  
COUNTY OF TARRANT } ss

The foregoing instrument was acknowledged before me this 15<sup>th</sup>  
day of March, 1968, by D. B. Mason, Jr.,  
ATTORNEY-IN-FACT of Pan American Petroleum Corporation, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:



Velma B. Craft  
Notary Public VELMA B. CRAFT

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Monsanto Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS }  
COUNTY OF MIDLAND } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Cities Service Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

TERMINATION OF UNIT AGREEMENT FOR THE DEVELOPMENT AND  
OPERATION OF THE HUAPACHE UNIT AREA, EDDY COUNTY  
NEW MEXICO, NO. 14-08-001-1668

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, being the owners of more than seventy-five (75) per cent on an acreage basis of the working interests in and to oil and gas leasehold interests committed to the Unit Agreement for the development and operation of the Huapache Unit Area, Eddy County, New Mexico, dated July 1, 1954, effective September 23, 1954, heretofore approved by the New Mexico Oil Conservation Commission, the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, do hereby agree to terminate said agreement in accordance with Section 21 thereof, subject to the approval of the said Oil Conservation Commission, said Commissioner of Public Lands and Director of the United States Geological Survey.

This instrument may be executed in counterparts, no one of which need be executed by all parties.

IN WITNESS WHEREOF, this instrument is executed by the undersigned parties hereto as of the respective dates set opposite their signatures.

HUMBLE OIL & REFINING COMPANY  
UNIT OPERATOR

Date \_\_\_\_\_

BY: \_\_\_\_\_  
Agent and Attorney-in-Fact

UNION OIL COMPANY OF CALIFORNIA

Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

PAN AMERICAN PETROLEUM CORPORATION

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

MONSANTO COMPANY

Date July 1, 1968

BY: B. L. Allen  
Attorney-in-Fact

CITIES SERVICE OIL COMPANY

Date \_\_\_\_\_

BY: \_\_\_\_\_

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
Agent and Attorney-in-Fact of Humble Oil & Refining Company, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of Union Oil Company of California, a California  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF TARRANT ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of Pan American Petroleum Corporation, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF ~~MIDLAND~~ <sup>HARRIS</sup> ) ss

The foregoing instrument was acknowledged before me this 1st  
day of July, 1968, by B. L. Allen,  
Attorney-in-Fact of Monsanto Company, a Delaware  
Corporation, on behalf of said corporation.

My Commission Expires:

Dorothy D. Norton  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF MIDLAND ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of Cities Service Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

Secretary  
Date                       
0 0

ATTEST:

Secretary  
Date                     

ATTEST:

Secretary  
Date                     

Date                     

Date                     

Date                     

Date                     

Date                     

Date                     

Date                     

Date                     

Date                     

BEARD OIL COMPANY

BY: W M Beard  
Partner

DELBASIN CORPORATION

BY:                     

JOHN H. TRIGG COMPANY

BY:                     

Clarence E. Manion

Emmett D. White

Bonnie H. Morrison

Arthur H. Spiegel

T. C. Stromberg

William B. Barnhill

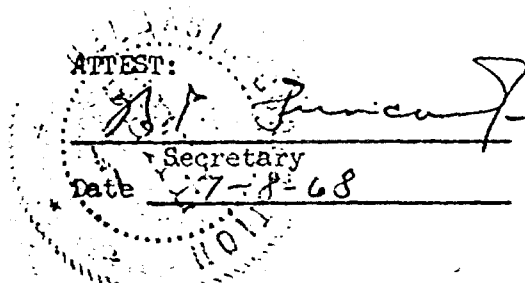
Lynn V. Waggoner

Estelle Parker

Hoover H. Wright

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:  
  
\_\_\_\_\_  
Secretary  
Date 7-8-68

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

BEARD OIL COMPANY

BY: \_\_\_\_\_

DELBASIN CORPORATION

BY: *G. W. Simpson*  
Vice-President

JOHN H. TRIGG COMPANY

BY: \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

\_\_\_\_\_  
Emmett D. White

\_\_\_\_\_  
Bonnie H. Morrison

\_\_\_\_\_  
Arthur H. Spiegel

\_\_\_\_\_  
T. C. Stromberg

\_\_\_\_\_  
William B. Barnhill

\_\_\_\_\_  
Lynn V. Waggoner

\_\_\_\_\_  
Estelle Parker

\_\_\_\_\_  
Hoover H. Wright



THE STATE OF OKLAHOMA )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of Beard Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF Tarrant ) ss

The foregoing instrument was acknowledged before me this 1st  
day of July, 1968, by E. W. Sampson,  
President of Delbasin Corporation, a Texas  
Corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1969  
\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of John H. Trigg Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF COLORADO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Clarence E. Manion

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Ermett D. White

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BEARD OIL COMPANY

BY: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

DELBASIN CORPORATION

BY: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

JOHN H. TRIGG COMPANY

BY: John H. Trigg ✓

Date \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

Date \_\_\_\_\_

\_\_\_\_\_  
Emmett D. White

Date \_\_\_\_\_

\_\_\_\_\_  
Bonnie H. Morrison

Date \_\_\_\_\_

\_\_\_\_\_  
Arthur H. Spiegel

Date \_\_\_\_\_

\_\_\_\_\_  
T. C. Stromberg

Date \_\_\_\_\_

\_\_\_\_\_  
William B. Barnhill

Date \_\_\_\_\_

\_\_\_\_\_  
Lynn V. Waggoner

Date \_\_\_\_\_

\_\_\_\_\_  
Estelle Parker

Date \_\_\_\_\_

\_\_\_\_\_  
Hoover H. Wright

THE STATE OF OKLAHOMA )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Beard Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Delbasin Corporation, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this 26<sup>th</sup>  
day of June, 1968, by John H. Trigg,  
\_\_\_\_\_ of John H. Trigg Company, a single proprietorship  
~~Corporation, on behalf of said corporation.~~

My Commission Expires:

October 21, 1971

Maurice Ferrin  
Notary Public

THE STATE OF COLORADO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Clarence E. Manion

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Emmett D. White

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

Date July 15, 1968

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

BEARD OIL COMPANY

BY: \_\_\_\_\_

DELBASIN CORPORATION

BY: \_\_\_\_\_

JOHN H. TRIGG COMPANY

BY: \_\_\_\_\_

Clarence E. Manion  
Clarence E. Manion

\_\_\_\_\_  
Emmett D. White

\_\_\_\_\_  
Bonnie H. Morrison

\_\_\_\_\_  
Arthur H. Spiegel

\_\_\_\_\_  
T. C. Stromberg

\_\_\_\_\_  
William B. Barnhill

\_\_\_\_\_  
Lynn V. Waggoner

\_\_\_\_\_  
Estelle Parker

\_\_\_\_\_  
Hoover H. Wright

THE STATE OF OKLAHOMA )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of Beard Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of Delbasin Corporation, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
of John H. Trigg Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF COLORADO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Clarence E. Manion

My Commission Expires:

My Commission Expires Jan. 12, 1969

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Emmett D. White

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

BEARD OIL COMPANY

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

DELBASIN CORPORATION

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

JOHN H. TRIGG COMPANY

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

Date JUNE 26-1968

Emmett D. White  
Emmett D. White

Date \_\_\_\_\_

\_\_\_\_\_  
Bonnie H. Morrison

Date \_\_\_\_\_

\_\_\_\_\_  
Arthur H. Spiegel

Date \_\_\_\_\_

\_\_\_\_\_  
T. C. Stromberg

Date \_\_\_\_\_

\_\_\_\_\_  
William B. Barnhill

Date \_\_\_\_\_

\_\_\_\_\_  
Lynn V. Waggoner

Date \_\_\_\_\_

\_\_\_\_\_  
Estelle Parker

Date \_\_\_\_\_

\_\_\_\_\_  
Hoover H. Wright

THE STATE OF OKLAHOMA     )  
                                  ) ss  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Beard Oil Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF TEXAS     )  
                                  ) ss  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of Delbasin Corporation, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO     )  
                                  ) ss  
COUNTY OF CHAVES     )

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by \_\_\_\_\_,  
\_\_\_\_\_ of John H. Trigg Company, a \_\_\_\_\_  
Corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF COLORADO     )  
                                  ) ss  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Clarence E. Manion

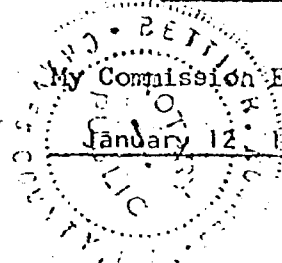
My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO     )  
                                  ) ss  
COUNTY OF CHAVES     )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ 26th  
day of \_\_\_\_\_ June \_\_\_\_\_, 1968, by \_\_\_\_\_ Emmett D. White

My Commission Expires:



*Bettie R. Hughes*  
\_\_\_\_\_  
Notary Public

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

BEARD OIL COMPANY

BY: \_\_\_\_\_

DELBASIN CORPORATION

BY: \_\_\_\_\_

JOHN H. TRIGG COMPANY

BY: \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

\_\_\_\_\_  
Emmett D. White

\_\_\_\_\_  
Bonnie H. Morrison

\_\_\_\_\_  
*Arthur H. Spiegel*  
Arthur H. Spiegel

\_\_\_\_\_  
T. C. Stromberg

\_\_\_\_\_  
William B. Barnhill

\_\_\_\_\_  
Lynn V. Waggoner

\_\_\_\_\_  
Estelle Parker

\_\_\_\_\_  
Hoover H. Wright



THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Bonnie H. Morrison

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF Bernalillo ) ss

The foregoing instrument was acknowledged before me this 22<sup>nd</sup>  
day of December, 1968, by Arthur H. Spiegel

My Commission Expires:

January 15, 1970  
\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by T. C. Stromberg

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by William B. Barnhill

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Lynn V. Waggoner

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

BEARD OIL COMPANY

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

DELBASIN CORPORATION

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

JOHN H. TRIGG COMPANY

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

Date \_\_\_\_\_

\_\_\_\_\_  
Emmett D. White

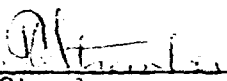
Date \_\_\_\_\_

\_\_\_\_\_  
Bonnie H. Morrison

Date \_\_\_\_\_

\_\_\_\_\_  
Arthur H. Spiegel

Date 21 Nov 1918

  
T. C. Stromberg

Date \_\_\_\_\_

\_\_\_\_\_  
William B. Barnhill

Date \_\_\_\_\_

\_\_\_\_\_  
Lynn V. Waggoner

Date \_\_\_\_\_

\_\_\_\_\_  
Estelle Parker

Date \_\_\_\_\_

\_\_\_\_\_  
Hoover H. Wright

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Bonnie H. Morrison

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Arthur H. Spiegel

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF Edley ) ss

The foregoing instrument was acknowledged before me this 21<sup>st</sup>  
day of July, 1968, by T. C. Stromberg

My Commission Expires:

Shirley Patterson  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by William B. Barnhill

My Commission Expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Lynn V. Waggoner

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BEARD OIL COMPANY

BY: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

DELBASIN CORPORATION

BY: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

JOHN H. TRIGG COMPANY

BY: \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

Date \_\_\_\_\_

\_\_\_\_\_  
Emmett D. White

Date \_\_\_\_\_

\_\_\_\_\_  
Bonnie H. Morrison

Date \_\_\_\_\_

\_\_\_\_\_  
Arthur H. Spiegel

Date \_\_\_\_\_

\_\_\_\_\_  
T. C. Stromberg

Date July 8<sup>th</sup> 1969

William B. Barnhill  
William B. Barnhill

Date \_\_\_\_\_

\_\_\_\_\_  
Lynn V. Waggoner

Date \_\_\_\_\_

\_\_\_\_\_  
Estelle Parker

Date \_\_\_\_\_

\_\_\_\_\_  
Hoover H. Wright

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968 by Bonnie H. Morrison

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Arthur H. Spiegel

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by T. C. Stromberg

My Commission Expires:

\_\_\_\_\_  
Notary Public

THE STATE OF NEW MEXICO )  
COUNTY OF CHAVES ) ss

The foregoing instrument was acknowledged before me this 8<sup>th</sup>  
day of July, 1968, by William B. Barnhill

My Commission Expires:

William B. Barnhill  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Lynn V. Waggoner

My Commission Expires:

\_\_\_\_\_  
Notary Public

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date July 1, 1968

Date \_\_\_\_\_

Date \_\_\_\_\_

BEARD OIL COMPANY

BY: \_\_\_\_\_

DELBASIN CORPORATION

BY: \_\_\_\_\_

JOHN H. TRIGG COMPANY

BY: \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

\_\_\_\_\_  
Emmett D. White

\_\_\_\_\_  
Bonnie H. Morrison

\_\_\_\_\_  
Arthur H. Spiegel

\_\_\_\_\_  
T. C. Stromberg

\_\_\_\_\_  
William B. Barnhill

Lynn V. Waggoner  
Lynn V. Waggoner

\_\_\_\_\_  
Estelle Parker

\_\_\_\_\_  
Hoover H. Wright

ATTEST:

BEARD OIL COMPANY

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

DELBASIN CORPORATION

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

ATTEST:

JOHN H. TRIGG COMPANY

\_\_\_\_\_  
Secretary  
Date \_\_\_\_\_

BY: \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_  
Clarence E. Manion

Date \_\_\_\_\_

\_\_\_\_\_  
Emmett D. White

Date \_\_\_\_\_

\_\_\_\_\_  
Bonnie H. Morrison

Date \_\_\_\_\_

\_\_\_\_\_  
Arthur H. Spiegel

Date \_\_\_\_\_

\_\_\_\_\_  
T. C. Stromberg

Date \_\_\_\_\_

\_\_\_\_\_  
William B. Barnhill

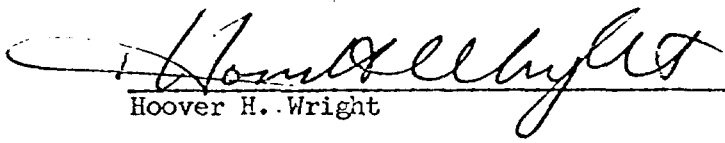
Date \_\_\_\_\_

\_\_\_\_\_  
Lynn V. Waggoner

Date \_\_\_\_\_

\_\_\_\_\_  
Estelle Parker

Date 6-28-68

  
\_\_\_\_\_  
Hoover H. Wright

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } ss

The foregoing instrument was acknowledged before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1968, by Estelle Parker.

My Commission Expires:

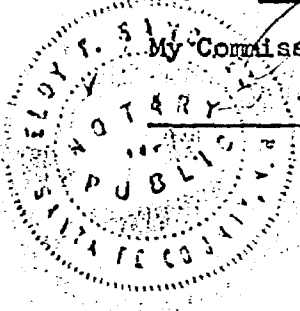
\_\_\_\_\_  
Notary Public

STATE OF NEW MEXICO }  
COUNTY OF Santa Fe } ss

The foregoing instrument was acknowledged before me this 27th  
day of June, 1968, by Hoover H. Wright.

My Commission Expires:

12/1/69  
\_\_\_\_\_  
Notary Public







IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1837  
Roswell, New Mexico 88201

September 17, 1963

Humble Oil and Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your letter of September 13 requests confirmation that well No. 10 Hualpeche in the SE<sup>1</sup>/<sub>4</sub> sec. 10, T. 23 S., R. 22 E., N.M.P.M., Eddy County, New Mexico, is considered by this office to be capable of producing unitized substances in paying quantities and that the Hualpeche unit is now in a producing status.

This office concurs that the above well qualifies as a unit discovery. We transmitted your application for approval of the initial Morrow participating area to our Washington office on August 19.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington  
Artesia  
BIM, Santa Fe  
Comm. Pub. Lands, Santa Fe  
N.M.O.C.C., Santa Fe



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

October 11, 1967

Humble Oil and Refining Company  
P. O. Box 1600  
Midland, Texas 79701

Attention: Mr. Bill R. Payne

Gentlemen:

Your plan of development covering the period October 1, 1967, to October 1, 1968, for the Buapache unit area, Eddy County, New Mexico, proposing to complete the drilling of the Pennsylvanian well in sec. 30, T. 24 S., R. 23 E., N.M.P.M., and evaluate the information contributed by such well, has been approved on this date.

Two approved copies of the plan are enclosed.

Sincerely yours,

JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy. plan)  
Artesia (w/cy. plan)  
NMCCC (ltr. only) ✓  
Com. of Pub. Lands (ltr. only)

67 Oct 13 PM 6:50

September 12, 1967

SEP 13 AM 9 13

In re: Plan of Development  
10-1-67 to 10-1-68  
Huapache Unit  
Eddy County, New Mexico

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87501

ATTENTION: Mr. Eddie Lopez  
Unit Supervisor

Gentlemen:

We are enclosing eight copies of our application for approval of  
Plan of Development for the period from October 1, 1967 to October 1, 1968.

Upon the approval of this application by the Commissioner of Public  
Lands, we would appreciate your forwarding seven copies to the Oil  
Conservation Commission for its approval.

With a copy of this letter to the Oil Conservation Commission, we are  
requesting that upon their approval of the application, six copies be  
forwarded to the United States Geological Survey for their approval.

If there should be any questions in regard to this application, please  
let us know. We wish to thank you in advance for your assistance and  
consideration of this application.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC:fd

Encls.

cc: United States Geological Survey  
New Mexico Oil Conservation Commission ✓

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

EXPLORATION DEPARTMENT  
SOUTHWESTERN DIVISION

September 11, 1967

POST OFFICE BOX 160013

SEP 13 1967

In re: Plan of Development  
10-1-67 to 10-1-68  
Huapache Unit  
Eddy County, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Regional Supervisor  
United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico 88201

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

Gentlemen:

In compliance with Section 10 of the Huapache Unit Agreement, Humble Oil & Refining Company, as Unit Operator, submits for approval of the Commissioner of Public Lands, the Regional Supervisor of United States Geological Survey, and the Director of the New Mexico Oil Conservation Commission, the following plan for the further development and operation of the Huapache Unit Area for the period from October 1, 1967 to October 1, 1968:

Referring to the Plan of Development expiring October 1, 1967, for the Huapache Unit Area, Eddy County, New Mexico, Unit Operator was unsuccessful in promoting a Yeso test in Section 16, T-24-S, R-22-E; however, pursuant to the second alternative under said Plan of Development, Humble, as Unit Operator, is presently drilling a Pennsylvanian test in the southern portion of the Unit Area at a location in Section 30, T-24-S, R-23-E.

Humble is planning to complete the drilling of the above described Pennsylvanian test and to evaluate the results thereof. Depending upon the results and information obtained from the drilling of this test, it is hoped that further development of the Unit Area will be possible.

The automatic elimination provision as set out under Subsection 2(e) of the Unit Agreement will take effect October 1, 1968, unless drilling operations are in progress inside the unit at such time. Humble, as Unit Operator, proposes to either commence or cause to be commenced such drilling operations to perpetuate the unit, or if not, to allow the unit to be automatically contracted as provided under this Subsection 2(e).

Humble Oil & Refining Company, as Unit Operator, respectfully requests your approval of this Plan of Development for the period ending October 1, 1968.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

*Bill R. Payne*  
Agent and Attorney in Fact

APPROVED	
Desc.	OC
Acreage	200
Int.	200
Form	OC
Trade	OC

JSC:fd

APPROVED:

\_\_\_\_\_  
Commissioner of Public Lands

\_\_\_\_\_  
Date

\_\_\_\_\_  
Regional Supervisor  
United States Geological Survey

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director  
New Mexico Oil Conservation Commission

\_\_\_\_\_  
Date

OIL CONSERVATION COMMISSION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

741

October 3, 1967

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas

Attention: Mr. John S. Cron

Re: Plan of Development  
October 1, 1967 to October 1, 1968,  
Huapache Unit, Eddy County, New  
Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development dated September 11, 1967, to cover the period October 1, 1967 to October 1, 1968, for the Huapache Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the plan are being forwarded to the United States Geological Survey, Roswell, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

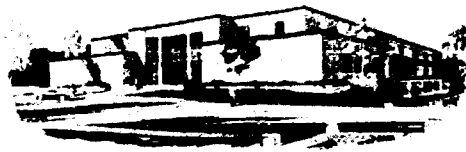
ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C  
O  
P  
Y

State of New Mexico



Commissioner of Public Lands

GUYTON B. HAYS  
COMMISSIONER



P. O. BOX 1148  
SANTA FE, NEW MEXICO

September 15, 1967

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas 79701

1967 SEP 15 PM 1 12

Re: Huapache Unit-  
1967 -1968 Plan of  
Development  
Eddy County, New Mexico

ATTENTION: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands approves the Plan of Development for Huapache Unit, Eddy County, New Mexico for the period from October 1, 1967 to October 1, 1968. Approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

This Plan of Development provides for the completion of a Pennsylvanian test well which is presently drilling in Section 30, Township 24-South, Range 23-East, and to evaluate the results thereof.

We are handing six copies of this Plan of Development to the Oil Conservation Commission for their consideration and requesting that they forward at least five copies to the United States Geological Survey in Roswell.

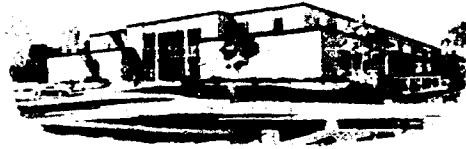
Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS  
BY:

Ted Bilberry, Director  
Oil and Gas Department

GBH/TB/EL/s  
cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

State of New Mexico



Commissioner of Public Lands

GUYTON B. HAYS  
COMMISSIONER



P. O. BOX 1148  
SANTA FE, NEW MEXICO

September 15, 1967

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas 79701

1967 SEP 15 PM 1 11

Re: Huapacha Unit-  
1967 -1968 Plan of  
Development  
Eddy County, New Mexico

ATTENTION: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands approves the Plan of Development for Huapacha Unit, Eddy County, New Mexico for the period from October 1, 1967 to October 1, 1968. Approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

This Plan of Development provides for the completion of a Pennsylvanian test well which is presently drilling in Section 30, Township 24-South, Range 23-East, and to evaluate the results thereof.

We are handing six copies of this Plan of Development to the Oil Conservation Commission for their consideration and requesting that they forward at least five copies to the United States Geological Survey in Roswell.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:

Ted Bilberry, Director  
Oil and Gas Department

GBH/TB/EL/s

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico



# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

EXPLORATION DEPARTMENT  
SOUTHWESTERN DIVISION

September 11, 1967

POST OFFICE BOX 1600

In re: Plan of Development  
10-1-67 to 10-1-68  
Huapache Unit  
Eddy County, New Mexico

Commissioner of Public Lands,  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Regional Supervisor  
United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico 88201

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

Gentlemen:

In compliance with Section 10 of the Huapache Unit Agreement, Humble Oil & Refining Company, as Unit Operator, submits for approval of the Commissioner of Public Lands, the Regional Supervisor of United States Geological Survey, and the Director of the New Mexico Oil Conservation Commission, the following plan for the further development and operation of the Huapache Unit Area for the period from October 1, 1967 to October 1, 1968:

Referring to the Plan of Development expiring October 1, 1967, for the Huapache Unit Area, Eddy County, New Mexico, Unit Operator was unsuccessful in promoting a Yeso test in Section 16, T-24-S, R-22-E; however, pursuant to the second alternative under said Plan of Development, Humble, as Unit Operator, is presently drilling a Pennsylvanian test in the southern portion of the Unit Area at a location in Section 30, T-24-S, R-23-E.

Humble is planning to complete the drilling of the above described Pennsylvanian test and to evaluate the results thereof. Depending upon the results and information obtained from the drilling of this test, it is hoped that further development of the Unit Area will be possible.

The automatic elimination provision as set out under Subsection 2(e) of the Unit Agreement will take effect October 1, 1968, unless drilling operations are in progress inside the unit at such time. Humble, as Unit Operator, proposes to either commence or cause to be commenced such drilling operations to perpetuate the unit, or if not, to allow the unit to be automatically contracted as provided under this Subsection 2(e).

Humble Oil & Refining Company, as Unit Operator, respectfully requests your approval of this Plan of Development for the period ending October 1, 1968.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY: *Bill R. Payne*  
Agent and Attorney in Fact

APPROVED	
Desc.	<i>HC</i>
Acreage	<i>HC</i>
Int.	<i>HC</i>
Form	<i>HC</i>
Trade	<i>HC</i>

JSC:fd

APPROVED:

*ington B. Lums*  
Commissioner of Public Lands

*September 15, 1967*  
Date

\_\_\_\_\_  
Regional Supervisor  
United States Geological Survey

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director  
New Mexico Oil Conservation Commission

\_\_\_\_\_  
Date

RECEIVED  
SEP 17 1967  
NEW MEXICO  
OIL CONSERVATION COMMISSION

7-11-77  
L  
687

111

**Gentlemen:**

We sincerely hope that by now you are feeling better.

Very truly yours,

**John S. Cron**

cc: New Mexico Oil Conservation Commission, (w/Approved Plan of Development)  
P. O. Box 2088  
Santa Fe, New Mexico

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

EXPLORATION DEPARTMENT  
SOUTHWESTERN DIVISION

September 22, 1966

POST OFFICE BOX 1600

RECEIVED

OCT 12 1966

U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

In re: Plan of Development  
10-1-66 to 10-1-67  
Huapache Unit  
Eddy County, New Mexico

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

Regional Supervisor  
United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico

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

Gentlemen:

In compliance with Section 10 of the Huapache Unit Agreement, Humble Oil & Refining Company, as Unit Operator, submits for approval of the Commissioner of Public Lands, the Regional Supervisor of United States Geological Survey, and the Director of the New Mexico Oil Conservation Commission, the following plan for the further development and operation of the Huapache Unit Area for the period from October 1, 1966 to October 1, 1967:

Unit Operator proposes to cause to be drilled a well to test the Yeso formation at an approximate depth of 3,200 feet at a location in Section 16, T-24-S, R-22-E. The mud logs on the Huapache Wells No. 3, 4, and 5 indicate good shows, staining and porosity in the Yeso Section, and it is felt that a test at a structurally updip position from these wells may prove worthwhile. Diligent efforts are now being made to promote such a test with acreage and dry hole money contributions.

Humble is further considering to cause a well to be drilled to test the Pennsylvanian formation at a location in the southern portion of the Unit Area, and efforts are now being made along

these lines. A well is being drilled at the present time by Tenneco Oil Company in the Hess Unit located to the east of the Huapache Unit Area, and this well may furnish beneficial information to help justify drilling in the southern part of the Unit Area.

Unit Operator is hopeful that at least one of the above mentioned tests will be caused to be drilled during the above specified time period. If, for any reason, Humble, as Unit Operator, is unable to cause either the Yeso test or Pennsylvanian test to be drilled during this period of time, and immediate further development cannot be undertaken, Humble Oil & Refining Company will consider terminating said Unit.

Humble Oil & Refining Company, as Unit Operator, respectfully requests your approval of this Plan of Development for the period ending October 1, 1967.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

BY

*[Signature]*

Agent and Attorney-in-Fact

JSC:ka

APPROVED:

*[Signature]*  
Commissioner of Public Lands

ACTING

*[Signature]*  
Regional Supervisor  
United States Geological Survey

*[Signature]*  
Director  
New Mexico Oil Conservation Commission

APPROVED	
Desc.	<i>[initials]</i>
Acreage	<i>[initials]</i>
Int.	<i>[initials]</i>
Form	<i>[initials]</i>
Trade	<i>[initials]</i>

Date

NOV 1 - 1966

Date

*[Signature]*  
Date



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1357  
Roswell, New Mexico 88201

IN REPLY REFER TO:

749  
November 1, 1966

DE 8:14 4 AON 99

Humble Oil and Refining Company  
P. O. Box 1600  
Midland, Texas 79701

Attention: Mr. John S. Cron

Gentlemen:

Your plan of development covering the period October 1, 1966, to October 1, 1967, for the Huapachic unit area, Eddy County, New Mexico, proposing the drilling of a Yeso test well and a Pennsylvanian test well, has been approved on this date.

Two approved copies of the plan are enclosed.

Sincerely yours,

(Orig. Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Artesia (w/cy plan)  
NMOCC (ltr. only) ✓  
Com. of Pub. Lands (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

7/1/7

October 6, 1966

C  
O  
P  
Y

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas 79701

Attention: Mr. John S. Cron

Re: Plan of Development  
10-1-66 to 10-1-67  
Huapache Unit, Eddy  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development covering the period from October 1, 1966, to October 1, 1967, for the Huapache Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the plan are being forwarded to the United States Geological Survey, Roswell, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

September 30, 1966

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas 79701

Re: Huapache Unit  
Eddy County, New Mexico

ATTENTION: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands approves the Plan of Development for Huapache Unit, Eddy County, New Mexico for the period October 1, 1966 to October 1, 1967. Approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

This Plan of Development provides for the drilling of a Yesso well to be located in Section 16, Township 24-South, Range 22-East and in addition there is a prospect of the drilling of a well in the southern portion of the unit during this period.

We are handing six copies of this Plan of Development to the Oil Conservation Commission for their consideration and requesting that they forward at least five copies to the United States Geological Survey in Roswell.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS  
BY:  
Ted Bilberry, Director  
Oil and Gas Department

GHH/MMR/s



Humble Oil & Refining Company  
September 30, 1966  
- Page 2 -

cc: United States Geological Survey  
Roswell, New Mexico  
Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

EXPLORATION DEPARTMENT  
SOUTHWESTERN DIVISION

September 22, 1966

POST OFFICE BOX 1600

In re: Plan of Development  
10-1-66 to 10-1-67  
Huapache Unit  
Eddy County, New Mexico

---

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

Regional Supervisor  
United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico

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

Gentlemen:

In compliance with Section 10 of the Huapache Unit Agreement, Humble Oil & Refining Company, as Unit Operator, submits for approval of the Commissioner of Public Lands, the Regional Supervisor of United States Geological Survey, and the Director of the New Mexico Oil Conservation Commission, the following plan for the further development and operation of the Huapache Unit Area for the period from October 1, 1966 to October 1, 1967:

Unit Operator proposes to cause to be drilled a well to test the Yeso formation at an approximate depth of 3,200 feet at a location in Section 16, T-24-S, R-22-E. The mud logs on the Huapache Wells No. 3, 4, and 5 indicate good shows, staining and porosity in the Yeso Section, and it is felt that a test at a structurally updip position from these wells may prove worthwhile. Diligent efforts are now being made to promote such a test with acreage and dry hole money contributions.

Humble is further considering to cause a well to be drilled to test the Pennsylvanian formation at a location in the southern portion of the Unit Area, and efforts are now being made along

these lines. A well is being drilled at the present time by Tenneco Oil Company in the Hess Unit located to the east of the Huapache Unit Area, and this well may furnish beneficial information to help justify drilling in the southern part of the Unit Area.

Unit Operator is hopeful that at least one of the above mentioned tests will be caused to be drilled during the above specified time period. If, for any reason, Humble, as Unit Operator, is unable to cause either the Yeso test or Pennsylvanian test to be drilled during this period of time, and immediate further development cannot be undertaken, Humble Oil & Refining Company will consider terminating said Unit.

Humble Oil & Refining Company, as Unit Operator, respectfully requests your approval of this Plan of Development for the period ending October 1, 1967.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

BY

*W. T. Gibson*  
Agent and Attorney-in-Fact

APPROVED	
Desc.	<i>DC</i>
Acreage	<i>DC</i>
Int.	<i>DC</i>
Form	<i>DC</i>
Trade	<i>DC</i>

JSC:ka

APPROVED:

*Lynton B. Sany*  
Commissioner of Public Lands

*September 30, 1966*  
Date

Regional Supervisor  
United States Geological Survey

*G. L. Porter, Jr.*  
Director  
New Mexico Oil Conservation Commission

Date

*Oct 6, 1966*  
Date

741  
HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

EXPLORATION DEPARTMENT  
SOUTHWESTERN DIVISION

SEP 26 1966  
September 26, 1966

POST OFFICE BOX 1600

In re: Plan of Development  
10-1-66 to 10-1-67  
Huapache Unit  
Eddy County, New Mexico

---

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

Attention: Mrs. Marian M. Rhea  
Unit Supervisor

Gentlemen:

We are enclosing eight copies of our application for approval of Plan of Development for the period from October 1, 1966 to October 1, 1967.

Upon the approval of this application by the Commissioner of Public Lands, we would appreciate your forwarding seven copies to the Oil Conservation Commission for its approval.

With a copy of this letter to the Oil Conservation Commission, we are requesting that upon their approval of the application, six copies be forwarded to the United States Geological Survey for their approval.

If there should be any questions in regard to this application, please let us know. We wish to thank you in advance for your assistance and consideration of this application.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

John S. Cron

JSC:ka  
Enclosures  
cc: United States Geological Survey  
New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION

P. O. BOX 2088  
SANTA FE, NEW MEXICO

747

February 24, 1965

C  
O  
P  
Y

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: 1965 Plan of Development  
Huapache Unit  
Eddy County, New Mexico

Gentlemen:

The New Mexico Oil Conservation Commission approves your request for an extension of the time until July 1, 1965, to submit a 1965 Plan of Development for the Huapache Unit. The Commission has received the copies of the letters of approval of the request as furnished you by the Commissioner of Public Lands and the United States Geological Survey.

Very truly yours,

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

ALP/JEK/og

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

State of New Mexico



Commissioner of Public Lands

GUYTON B. HAYS  
COMMISSIONER



P. O. BOX 1148  
SANTA FE, NEW MEXICO

February 2, 1965

Humble Oil and Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: Huapache Unit  
Eddy County, New Mexico  
Plan of Development

Gentlemen:

Pursuant to your letter of February 1, 1965, the Commissioner of Public Lands approved your request for an extension of time until July 1, 1965, in which to submit a further Plan of Development for the Huapache Unit. This approval is subject to like approval by the United States Geological Survey.

We are returning one approved copy of this request.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY: *Ted Bilberry*  
(Mr.) Ted Bilberry, Director  
Oil and Gas Department

GBH/tb/mmr/d

cc: United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico  
Attention: Mr. John Anderson

HUMBLE OIL & REFINING COMPANY  
SOUTHWEST REGION  
P. O. BOX 1597  
ROSWELL, NEW MEXICO

February 22, 1965

65 FEB 23 11:00 AM

In re: Huapache Unit Area - Plan of Development  
Huapache Unit No. 14-08-001-1668  
Eddy County, New Mexico

Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico

ATTENTION: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

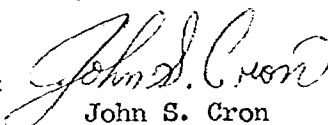
We are enclosing herewith our Application dated February 1, 1965, requesting an extension of time until July 1, 1965, to submit a further Plan of Development for the Huapache Unit, together with copies of letters from the Commissioner of Public Lands and the United States Geological Survey approving said extension.

Humble Oil & Refining Company, as Unit Operator, would appreciate your furnishing us a letter at your earliest convenience, concurring with the United States Geological Survey's and the Commissioner of Public Lands' approval of our application for this extension of time.

If you should have any questions in regard to the matter, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:   
John S. Cron

JSC/mk  
Encls.

cc: United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico  
Attention: Mr. John Anderson

Commissioner of Public Lands  
Post Office Box 1148  
Santa Fe, New Mexico  
Attention: Mrs. Marian M. Rhea

**HUMBLE OIL & REFINING COMPANY**

**SOUTHWEST REGION**

P. O. BOX 1557

**ROSWELL, NEW MEXICO**

February 1, 1965

23  
63  
1965

In re: Plan of Development  
Huapache Unit Area  
Huapache Unit No. 14-03-001-1668  
Eddy County, New Mexico

United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico

Commissioner of Public Lands  
P. O. Box 1181 - 1148  
Santa Fe, New Mexico

ATTENTION: Mr. John Anderson

ATTENTION: Mrs. Marian Rhea

Gentlemen:

Under the plan of development for the year 1964, Humble Oil & Refining Company, as unit operator, re-entered the Huapache Unit Well No. 5, located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 14, T-24-S, R-22-E, for the purpose of deepening the same to a depth to test the upper and lower Pennsylvanian Morrow sections; however, the major objective being the upper Pennsylvanian Carbonate section was encountered at a structurally low position and as no shows of oil or gas were found, further drilling could not be economically justified and the well was abandoned on January 12, 1965, at a total depth of 4,844 feet. Our Company is now in the process of evaluating this re-entry operation and it may be that the information obtained from this re-entry, after it is fully evaluated, will justify further drilling within the unit area on the same trend.

Our Company has recently agreed to join the China Canyon Unit, a regular Federal Exploratory type unit, located to the east of this unit, and has agreed to participate in the cost of the initial Devonian test. It is not only hoped this well will result in a discovery, but will provide us with needed information to help in evaluating the southeast portion of the Huapache Unit.



Plan of Development  
Huapache Unit Area

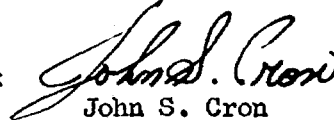
In addition, we are currently making a detailed study of the Pennsylvanian formation north of the Huapache Unit Well No. 10, located in Section 10, T-23-S, R-22-E, (this is the discovery well in the unit and is presently shut-in for lack of market). This area is very difficult from a geological standpoint as there is little control and with the added burden of extremely high drilling cost for wells in this particular locale, it is necessary that extreme caution be exercised in studying and evaluating the geology prior to proposing a unit test.

In view of the above, Humble Oil & Refining Company, as Unit Operator, respectfully requests an extension of time until July 1, 1965, in which to submit a further plan of development for the Huapache Unit. The above, when approved by the Commissioner of Public Lands and the United States Geological Survey, shall constitute the same as the plan of development for the period from January 1, 1965 to July 1, 1965.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

  
John S. Cron

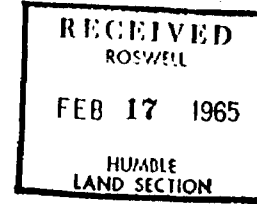
JSC:jm



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

IN REPLY REFER TO:



55 FEB 23 1965

February 15, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

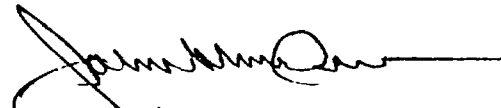
Attention: Mr. John S. Cron

Gentlemen:

Your letter of February 1 requests an extension of time to July 1, 1965, within which to file the next plan of development for the Huapache unit, Eddy County, New Mexico. The extension is requested in order to fully evaluate the information obtained from the re-entry of unit well No. 5 and to complete a geological study of Pennsylvanian formations in the area north of unit well No. 10, before programming additional development of the unit area.

You are hereby granted a six-month extension of time to July 1, 1965, within which to file the next plan of development for the Huapache unit area, Eddy County, New Mexico, subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

  
JOHN A. ANDERSON  
Regional Oil & Gas Supervisor

HUMBLE OIL & REFINING COMPANY  
SOUTHWEST REGION  
P. O. BOX 1597  
ROSWELL, NEW MEXICO

September 28, 1965

MAIN OFFICE  
SEP 29 AM 9 30

749

In re: Huapache Unit  
Eddy County, New Mexico

Working Interest Owners  
(Mailing List Attached)

Gentlemen:

We are enclosing for the completion of your files an approved copy of Plan of Development, Huapache Unit, Eddy County, New Mexico, for the period from October 1, 1965, to October 1, 1966. This plan provides for the drilling of a Pennsylvanian test inside said unit.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:   
John S. Cron

JSC:jm  
Enclosures

cc: Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico  
Attention: Mrs. Marian Rhea

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico  
Attention: Mr. A. L. Porter, Jr.

Hanagan Petroleum Corporation  
P. O. Box 1737  
Roswell, New Mexico

(all w/enclosures)

Union Oil Company of California  
Post Office Box 6738  
Roswell, New Mexico 88201

Union Oil Company of California  
(The Pure Oil Company)  
Post Office Box 671  
Midland, Texas

Monsanto Company  
602 West Missouri  
Midland, Texas

Mrs. Barbara Talento  
3785 Mauna Loa Street  
Brea, California

Mr. Winston R. Cornell  
Attorney and Counselor at Law  
14321 East Ramona Boulevard  
Baldwin Park, California

Mr. Clarence E. Manion, Geologist  
910 American National Bank Building  
Denver 2, Colorado

Mr. Emmett D. White  
Post Office Box 1150  
Roswell, New Mexico 88201

Mrs. Bonnie H. Morrison  
3 Park Road  
Roswell, New Mexico 88201

Mr. Arthur H. Spiegel  
Post Office Box 1042  
Albuquerque, New Mexico

Mr. T. C. Stromberg  
Post Office Box 518  
Artesia, New Mexico

Beard Oil Company  
1300 North Broadway  
Oklahoma City, Oklahoma

Delbasin Corporation  
c/o Hon. John B. Connally and  
Mrs. Idanell Connally  
Governor's Mansion  
1010 Colorado  
Austin, Texas 78701

Mr. Wm. B. Barnhill  
Post Office Box 1354  
Roswell, New Mexico 88201

John H. Trigg Company  
Post Office Box 520  
Roswell, New Mexico 88201

Mrs. Lynn V. Waggoner  
c/o John H. Trigg Company  
Post Office Box 520  
Roswell, New Mexico 88201

Pan American Petroleum Corporation  
Post Office Box 268  
Lubbock, Texas

Cities Service Oil Company  
Post Office Box 760  
Roswell, New Mexico 88201

Mrs. Estelle Parker  
c/o Major and Giebel  
1204 Vaughn Building  
Midland, Texas

Mr. J. Burns  
200 Park Avenue, Suite 3020  
New York 17, New York

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS

MIDLAND AREA

September 17, 1965

POST OFFICE BOX 1600

In re: Plan of Development  
Huapache Unit  
Eddy County, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico

Regional Supervisor  
United States Geological Survey  
Post Office Box 1857

Director  
New Mexico Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico

Gentlemen:

In compliance with Section 10 of the Huapache Unit Agreement, Humble Oil & Refining Company, as Unit Operator, submits for approval of the Commissioner of Public Lands, the Regional Supervisor of the United States Geological Survey and the Director of the New Mexico Oil Conservation Commission, the following plan for the further development and operation of the Huapache Unit Area for the remainder of the calendar year 1965 and for nine months of the calendar year 1966 ending October 1, 1966:

- 1) In our letter of July 13, 1965, requesting an extension of time to October 1, 1965, in which to submit a further plan of development for the Huapache Unit, Unit Operator agreed to submit either a plan of development for a six-months period providing for the drilling of a Yesso test or a plan of development for a one-year period providing for the drilling of a Pennsylvanian test.
- 2) Humble, as Unit Operator, has now entered into an agreement with Hanagan Petroleum Corporation which provides for the drilling of a Pennsylvanian test in the NW/4 NE/4 Section 1, T.23S., R.22E. within the above specified time period. This test should help to evaluate the Pennsylvanian Formation in the northeast area of this unit.

RECEIVED

SEP 22 1965

U. S. GEOLOGICAL SURVEY  
ROSWell, NEW MEXICO

Public Lands, et al

-2-

September 17, 1965

In view of the firm agreement with Hanagan Petroleum Corporation for the further development of this Unit, Humble Oil & Refining Company, as Unit Operator, respectfully requests your approval of the above-noted operations as our Plan of Development for the Period from October 1, 1965, to October 1, 1966.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By: Bill R. Payne  
Agent and Attorney-in-Fact

JSC/ed

APPROVED:

Newton B. Lays  
Commissioner of Public Lands

DATE: September 20, 1965

ACTING Carl E. Trammell  
Regional Supervisor,  
United States Geological Survey

DATE: SEP 22 1965

A. L. Boster Jr.  
Director,  
New Mexico Oil Conservation Commission

DATE: 9/21/65



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

IN REPLY REFER TO:

MAILED  
SEP 24 PM 4  
1965  
September 22, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your plan of development covering the period from October 1, 1965, to October 1, 1966, for the Huapache unit area, Eddy County, New Mexico, proposing the drilling of a Pennsylvanian test well in the NW 1/4 sec. 1, T. 23 S., R. 22 E., N.M.P.M., has been approved on this date. The Commissioner of Public Lands and Oil Conservation Commission, State of New Mexico, approved the plan on September 20 and September 21, 1965, respectively.

Two approved copies of the plan are enclosed.

Sincerely yours,  
CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy of plan)  
Artesia (w/cy of plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

HUMBLE OIL & REFINING COMPANY

SOUTHWEST REGION

P. O. BOX 1597

ROSWELL, NEW MEXICO

September 20, 1965

749

In re: Huapache Unit  
Eddy County, New Mexico

United States Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico 88201

ATTENTION: Mr. John Anderson

Gentlemen:

In accordance with your letter of July 27, 1965, and as provided in the Huapache Unit Agreement, we are enclosing herewith the following:

- 1) Six copies of revised Exhibit "A" to the Huapache Unit Agreement, being a map showing the unit area and the current tract numbers, etc.
- 2) Six copies of revised Exhibit "B" to the Huapache Unit Agreement reflecting the revised tract numbers and current lease ownership, etc.

On this same date, we are filing a Plan of Development with the Commissioner of Public Lands for the period from October 1, 1965, to October 1, 1966, providing for the drilling of a Pennsylvanian test. Enclosed for your early consideration is a copy of said Plan of Development.

If you should have any questions in regard to any of the enclosures, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

*John S. Cron*  
John S. Cron

JSC:jm

cc: Commissioner of Public Lands  
✓ New Mexico Oil Conservation Commission  
Working Interest Owners (see attached mailing list)  
(w/enclosures)



Union Oil Company of California  
Post Office Box 6738  
Roswell, New Mexico 88201

Union Oil Company of California  
(The Pure Oil Company)  
Post Office Box 671  
Midland, Texas

Monsanto Company  
602 West Missouri  
Midland, Texas

Mrs. Barbara Talento  
3785 Mauna Loa Street  
Brea, California

Mr. Winston R. Cornell  
Attorney and Counselor at Law  
14321 East Ramona Boulevard  
Baldwin Park, California

Mr. Clarence E. Manion, Geologist  
910 American National Bank Building  
Denver 2, Colorado

Mr. Emmett D. White  
Post Office Box 1150  
Roswell, New Mexico 88201

Mrs. Bonnie H. Morrison  
3 Park Road  
Roswell, New Mexico 88201

Mr. Arthur H. Spiegel  
Post Office Box 1042  
Albuquerque, New Mexico

Mr. T. C. Stromberg  
Post Office Box 518  
Artesia, New Mexico

Beard Oil Company  
1300 North Broadway  
Oklahoma City, Oklahoma

Delbasin Corporation  
c/o Hon. John B. Connally and  
Mrs. Idanell Connally  
Governor's Mansion  
1010 Colorado  
Austin, Texas 78701

Mr. Wm. B. Barnhill  
Post Office Box 1354  
Roswell, New Mexico 88201

John H. Trigg Company  
Post Office Box 520  
Roswell, New Mexico 88201

Mrs. Lynn V. Waggoner  
c/o John H. Trigg Company  
Post Office Box 520  
Roswell, New Mexico 88201

Pan American Petroleum Corporation  
Post Office Box 268  
Lubbock, Texas

Cities Service Oil Company  
Post Office Box 760  
Roswell, New Mexico 88201

Mrs. Estelle Parker  
c/o Major and Giebel  
1204 Vaughn Building  
Midland, Texas

Mr. J. Burns  
200 Park Avenue, Suite 3020  
New York 17, New York

REVISED EXHIBIT "B"  
HUAPACHE UNIT AREA, EDDY COUNTY, NEW MEXICO  
TOWNSHIPS 23 and 24 SOUTH, RANGES 22 and 23 EAST

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF CIL AND GAS  
INTERESTS IN ALL LANDS IN THE UNIT AREA

Tract No.	Description of Land	No. of Acres	Serial No. and Lease Date	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty & Percentage	Working Interest Owner
<u>FEDERAL LAND</u>							
1.	T-23-S, R-22-E Sec. 1: All Sec. 11: SW $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 12: N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ Sec. 13: W $\frac{1}{2}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ W $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ Lot 3 Sec. 24: W $\frac{1}{2}$ , SE $\frac{1}{4}$ Sec. 25: N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$	2356.42	LC 064855 3-1-51	USA-A11	Humble Oil & Refining Company	Bonnie H. Morrison \$750 per acre out of 2 $\frac{1}{2}$ %, and Margaret M. Wilder $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
1-A.	T-23-S, R-23-E Sec. 19: Lot 4, SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	LC 064855-A 3-1-51	USA-A11	Bonnie H. Morrison	Bonnie H. Morrison \$750 per acre out of 2 $\frac{1}{2}$ %, and Margaret M. Wilder $\frac{1}{2}$ of 1%	Bonnie H. Morrison
2.	T-23-S, R-22E Sec. 4: E $\frac{1}{2}$ NW $\frac{1}{2}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$	280.00	LC 065224 3-1-52	USA-A11	Humble Oil & Refining Company	Madge Blocksom and F. W. Blocksom \$750 per acre out of 3%	Humble Oil & Refining Company
2-A.	T-23-S, R-22-E Sec. 4: SW $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	LC 065224-B 3-1-52	USA-A11	Humble Oil & Refining Company	Madge Blocksom et vir \$750 per acre out of 3%, and Vee K. Ross et vir \$250 per acre out of 1%	Humble Oil & Refining Company

Revised September 1, 1965

3.	<u>T-23-S, R-22-E</u> Sec. 5: <u>All except SE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u>	600.00	LC 065224-A 3-1-52	USA-A11	Humble Oil & Refining Company	Potash Company of America	3%	Humble Oil & Refining Company
3-A.	<u>T-23-S, R-22-E</u> Sec. 5: <u>SE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u>	40.00	LC 065224-C 3-1-52	USA-A11	Humble Oil & Refining Company	Potash Company of America Ruby F. Holder et vir \$250 per acre out of 1%	3%	Humble Oil & Refining Company
4.	<u>T-23-S, R-22-E</u> Sec. 4: <u>E<math>\frac{1}{2}</math></u> Sec. 6: <u>Lot 4, SE<math>\frac{1}{4}</math>SW<math>\frac{1}{4}</math>, S<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math></u> Sec. 8: <u>All</u> Sec. 9: <u>NE<math>\frac{1}{4}</math>, N<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math>, SW<math>\frac{1}{4}</math>, E<math>\frac{1}{2}</math>NW<math>\frac{1}{4}</math>, SW<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math></u>	1622.81	LC 065257-A 3-1-52	USA-A11	Humble Oil & Refining Company	Thomas A. Powell \$750 per acre out of 3%		Humble Oil & Refining Company
4-A.	<u>T-23-S, R-22-E</u> Sec. 9: <u>NW<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math></u>	40.00	LC 065257-B 3-1-52	USA-A11	Humble Oil & Refining Company	Thomas A. Powell \$750 per acre out of 3% Ruby F. Holder et vir \$250 per acre out of 1%		Humble Oil & Refining Company
5.	<u>T-23-S, R-22-E</u> Sec. 33: <u>Lots 1, 2, 5, 6, 7 and 16</u>	241.46	LC 065793-B 5-1-52	USA-A11	Humble Oil & Refining Company	Warren R. Cobean and Minnie W. Cobean \$750 per acre out of 3%		Humble Oil & Refining Company
5-A.	<u>T-23-S, R-22-E</u> Sec. 33: <u>Lot 17</u>	28.20	LC 065793-E 5-1-52	USA-A11	Wm. B. Barnhill	Warren R. Cobean and Minnie W. Cobean \$750 per acre out of 3%		Wm. B. Barnhill
6.	<u>T-24-S, R-22-E</u> Sec. 2: <u>S<math>\frac{1}{2}</math>NE<math>\frac{1}{4}</math>, Lots 1, 2</u>	161.05	LC 066027 (Terminated) NM 055380 (New Lease) 2-1-61	USA-A11	Arthur H. Spiegel	None		Arthur H. Spiegel
7.	<u>T-24-S, R-22-E</u> Sec. 25: <u>Lot 3, NE<math>\frac{1}{2}</math>SW<math>\frac{1}{4}</math>, SW<math>\frac{1}{4}</math>SW<math>\frac{1}{4}</math></u> Sec. 36: <u>W<math>\frac{1}{2}</math>, W<math>\frac{1}{2}</math>NE<math>\frac{1}{4}</math></u>	558.64	LC 066046-B 12-1-52	USA-A11	Humble Oil & Refining Company	G. C. Weaver \$750 per acre out of 3%		Humble Oil & Refining Company
7-A.	<u>T-24-S, R-22-E</u> Sec. 25: <u>NW<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u>	40.00	LC 066046-G 12-1-52	USA-A11	Humble Oil & Refining Company	G. C. Weaver \$750 per acre out of 3% W. G. Ross \$150 per acre out of 1/2 of 1%		Humble Oil & Refining Company

8.	T-23-S, R-22-E Sec. 3: All Sec. 10: E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 11: W $\frac{1}{2}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13: NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 14: N $\frac{1}{2}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , Lots 1, 2 Sec. 23: NE $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ E $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 25: SW $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 26: E $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$	2430.80	IC 066097 8-1-52	USA-All	Humble Oil & Refining Company	Burl Steward and Trecie Steward \$750 per acre out of 3 $\frac{1}{2}$	Humble Oil & Refining Company
8-A.	T-23-S, R-22-E Sec. 24: SW $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	IC 066097-A 8-1-52	USA-All	Humble Oil & Refining Company	Burl Steward and Trecie Steward \$750 per acre out of 3 $\frac{1}{2}$ and W. G. Ross \$150 per acre out of 1/2 of 1 $\frac{1}{2}$	Humble Oil & Refining Company
9.	T-24-S, R-22-E Sec. 36: NW $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	IC 066111-B 4-1-53	USA-All	Humble Oil & Refining Company	Robert L. Graham and Sue Saunders Graham \$750 per acre out of 3 $\frac{1}{2}$	Humble Oil & Refining Company
9-A.	T-24-S, R-22-E Sec. 36: SW $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	IC 066111-D 4-1-53	USA-All	Monsanto Company	Robert L. Graham and Sue Saunders Graham \$750 per acre out of 3 $\frac{1}{2}$	Monsanto Company
10.	T-23-S, R-22-E Sec. 6: Lots 2, 3, NE $\frac{1}{4}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$	365.10	IC 067663-A 6-1-52	USA-All	Humble Oil & Refining Company	Daniel S. Harroun and Eleanor F. Harroun	Humble Oil & Refining Company
10-A.	T-23-S, R-22-E Sec. 6: NE $\frac{1}{4}$ NW $\frac{1}{4}$ , Lot 1	62.29	IC 067663-B 6-1-52	USA-All	Union Oil Company of California	Daniel S. Harroun and Eleanor F. Harroun	Union Oil Company of California
11.	T-24-S, R-22-E Sec. 36: Lot 3  T-24-S, R-23-E Sec. 29: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30: Lot 3, N $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 31: Lots 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ , E $\frac{1}{2}$	1121.50	IC 069187 11-1-52	USA-All	Humble Oil & Refining Company	Jerry Curtis and Loneta S. Curtis	Humble Oil & Refining Company

11-A.	T-24-S, R-22-E Sec. 36: Lot 4	40.05	LC 069187-A 11-1-52	USA-A11	Humble Oil & Refining Company	Jerry Curtis and Loneta S. Curtis and 3%	Humble Oil & Refining Company
12.	T-24-S, R-22-E Sec. 24: All Sec. 25: $W\frac{1}{2}NE\frac{1}{4}$ , Lots 1 and 2 ( $E\frac{1}{2}NE\frac{1}{4}$ )	850.73	NM 0936 2-1-53	USA-A11	Humble Oil & Refining Company	Bertrand O. Baetz and Peggy E. Baetz \$750 per acre out of $\frac{1}{2}$ of $1\frac{1}{2}$	Humble Oil & Refining Company
	T-24-S, R-23-E Sec. 19: Lots 2, 3						
12-A.	T-24-S, R-23-E Sec. 19: Lot 1	40.48	NM 0936-A 2-1-53	USA-A11	Humble Oil & Refining Company	Bertrand O. Baetz and Peggy E. Baetz \$750 per acre out of $\frac{3}{4}$ and W. G. Ross \$150 per acre out of $\frac{1}{2}$ of $1\frac{1}{2}$	Humble Oil & Refining Company
13.	T-24-S, R-22-E Sec. 2: $SE\frac{1}{4}$ Sec. 11: All Sec. 14: All Sec. 15: $NE\frac{1}{4}$ Sec. 23: $E\frac{1}{2}$ Sec. 25: $NW\frac{1}{2}NW\frac{1}{4}$ , $S\frac{1}{2}NW\frac{1}{4}$	2040.00	NM 0937-A 12-1-52	USA-A11	Humble Oil & Refining Company	Robert L. Bunnell and Pauline A. Bunnell \$750 per acre out of $\frac{3}{4}$	Humble Oil & Refining Company
13-A.	T-24-S, R-22-E Sec. 25: $NE\frac{1}{2}NW\frac{1}{4}$	40.00	NM 0937-B 12-1-52	USA-A11	Humble Oil & Refining Company	Robert L. Bunnell and Pauline A. Bunnell \$750 per acre out of $\frac{3}{4}$ and W. G. Ross \$150 per acre out of $\frac{1}{2}$ of $1\frac{1}{2}$	Humble Oil & Refining Company

14.	T-24-S, R-22-E Sec. 2: Lot 4, S $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ Sec. 3: Lots 1, 2, 3, 5, S $\frac{1}{2}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ Sec. 4: All Sec. 9: NE $\frac{1}{4}$ Sec. 10: All	2365.70	NM 0938 4-1-53	USA-All	Humble Oil & Refining Company	Robert L. Bunnel and Pauline A. Bunnel \$750 per acre out of 3 $\frac{1}{2}$	Humble Oil & Refining Company
14-A.	T-24-S, R-22-E Sec. 2: Lot 3 (NE $\frac{1}{2}$ NW $\frac{1}{4}$ )	40.56	NM 0938-A 4-1-53	USA-All	Humble Oil & Refining Company	Robert L. Bunnel and Pauline A. Bunnel \$750 per acre out of 3 $\frac{1}{2}$ and W. G. Ross \$150 per acre out of 1/2 of 1 $\frac{1}{2}$	Humble Oil & Refining Company
15.	T-23-S, R-22-E Sec. 26: SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 34: Lots 1, 4, 5, 7, SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 35: E $\frac{1}{2}$ W $\frac{1}{2}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ , E $\frac{1}{2}$ except SE $\frac{1}{4}$ SE $\frac{1}{4}$	1172.93	NM 01929 2-1-53	USA-All	Humble Oil & Refining Company	Bertrand O. Baetz and Peggy E. Baetz \$750 per acre out of 3 $\frac{1}{2}$	Humble Oil & Refining Company
15-A.	T-23-S, R-22-E Sec. 35: SE $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	NM 01929-A 2-1-53	USA-All	Humble Oil & Refining Company	Bertrand O. Baetz and Peggy E. Baetz \$750 per acre out of 3 $\frac{1}{2}$ and W. G. Ross \$150 per acre out of 1/2 of 1 $\frac{1}{2}$	Humble Oil & Refining Company
16.	T-23-S, R-22-E Sec. 21: Lots 1, 2, W $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 22: SW $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 26: NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 27: NW $\frac{1}{4}$ , SW $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34: W $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 35: SW $\frac{1}{2}$ NW $\frac{1}{4}$	1159.06	NM 04454 12-1-52	USA-All	Humble Oil & Refining Company	Mrs. Martha Donaldson \$750 per acre out of 3 $\frac{1}{2}$	Humble Oil & Refining Company

16-A.	<u>T-23-S, R-22-E</u> Sec. 35: <u>NW<sup>1</sup><sub>4</sub>NW<sup>1</sup><sub>4</sub></u>	40.00	NM 04454-A 12-1-52	USA-A11	Humble Oil & Refining Company	Mrs. Martha Donaldson \$750 per acre out of 3 $\frac{1}{2}$ and W. G. Ross \$150 per acre out of 1 $\frac{1}{2}$ of 1 $\frac{1}{2}$	Humble Oil & Refining Company
17.	<u>T-23-S, R-22-E</u> Sec. 17: <u>All except NE<sup>2</sup><sub>4</sub>NE<sup>1</sup><sub>4</sub></u>	600.00	NM 04505-B 10-1-52	USA-A11	Humble Oil & Refining Company	John H. Meyer and Denise Davis Meyer \$750 per acre out of 3 $\frac{1}{2}$	Humble Oil & Refining Company
17-A.	<u>T-23-S, R-22-E</u> Sec. 17: <u>NE<sup>2</sup><sub>4</sub>NE<sup>1</sup><sub>4</sub></u>	40.00	NM 04505-C 10-1-52	USA-A11	Humble Oil & Refining Company	John H. Meyer and Denise Davis Meyer \$750 per acre out of 3 $\frac{1}{2}$ and W. G. Ross \$150 per acre out of 1 $\frac{1}{2}$ of 1 $\frac{1}{2}$	Humble Oil & Refining Company
18.	<u>T-23-S, R-22-E</u> Sec. 21: <u>NW<sup>4</sup><sub>4</sub></u>	160.00	NM 05703 (Terminated) NM 0411595 (New Lease) 8-1-63	USA-A11	Cities Service Oil Company	Raymond Chorney	Cities Service Oil Company
19.	<u>T-23-S, R-22-E</u> Sec. 33: <u>Lot 8, W<sup>1</sup><sub>2</sub>NE<sup>1</sup><sub>4</sub> N<sup>2</sup><sub>2</sub>NW<sup>1</sup><sub>4</sub>, SW<sup>1</sup><sub>4</sub>NW<sup>1</sup><sub>4</sub></u>	232.53	NM 06133 (Terminated) NM 0150421 (New Lease) 11-1-61	USA-A11	Union Oil Company* of California*	Gerald T. Tresner	Union Oil Company of California

\*Successor by merger to The Pure Oil Company

20.	<u>T-23-S, R-22-E</u> Sec. 10: $W\frac{1}{2}$ SW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 14: Lots 3, 4, NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 15: All Sec. 22: N $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 26: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 23: S $\frac{1}{2}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 27: N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{2}$ NE $\frac{1}{4}$	1788.48	NM 06478 10-1-52	USA-A11	Humble Oil & Refining Company	Lucille Parker \$750 per acre out of 3%	Humble Oil & Refining Company
20-A	<u>T-23-S, R-22-E</u> Sec. 23: NW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	NM 06478-A 10-1-52	USA-A11	Humble Oil & Refining Company	Lucille Parker \$750 per acre out of 3% W. G. Ross \$150 per acre out of 1/2 of 1%	Humble Oil & Refining Company
21.	<u>T-23-S, R-23-E</u> Sec. 19: Lot 3	43.36	NM 032166 10-1-58	USA-A11	Beard Oil Company	None	Beard Oil Company
22.	<u>T-23-S, R-22-E</u> Sec. 22: S $\frac{1}{2}$ SE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$	120.00	NM 06821-A 3-1-52	USA-A11	Humble Oil & Refining Company	Henry G. Reed and Margaret Young Reed, Cary S. Hill and Lilla Lovell Hill, Murray Ward and Virginia D. Ward - 1/2 of 3% Thomas Connell and Emily K. Connell - 1/2 of 3%	Humble Oil & Refining Company
22-A.	<u>T-23-S, R-22-E</u> Sec. 22: NW $\frac{1}{4}$ SE $\frac{1}{4}$ <u>T-23-S, R-23-E</u> Sec. 30: Lot 2	82.42	NM 0372736* 8-1-63	USA-A11	Clarence E. Manion	None	Clarence E. Manion
23.	<u>T-23-S, R-23-E</u> Sec. 30: Lot 1, E $\frac{1}{2}$ NW $\frac{1}{4}$	122.49	NM 06821-B 3-1-52	USA-A11	Humble Oil & Refining Company	Henry G. Reed and Margaret Young Reed, Cary S. Hill and Lilla Lovell Hill, Murray Ward and Virginia D. Ward - 1/2 of 3% Thomas Connell and Emily K. Connell - 1/2 of 3%	Humble Oil & Refining Company

\*This new federal lease is out of NM 06821-A & B which terminated as to these lands. This Tract 22-A was formerly a part of Tracts 22 and 23.



24.	T-23-S, R-22-E Sec. 21: S $\frac{1}{2}$ Sec. 28: All	958.66	NM 06858 2-1-52	USA-All	John H. Trigg and Pauline V. Trigg	None	John H. Trigg and Pauline V. Trigg
24-A.	T-23-S, R-22-E Sec. 27: SW $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	NM 06858-A 2-1-52	USA-All	Lynn V. and Richard W. Waggoner	None	Lynn V. and Richard W. Waggoner
25.	T-23-S, R-23-E Sec. 31: W $\frac{1}{2}$	348.81	NM 07105 3-1-52	USA-All	Humble Oil & Refining Company	T. C. Stromberg and June B. Stromberg \$750 per acre out of 3%	Humble Oil & Refining Company
25-A.	T-23-S, R-23-E Sec. 30: NE $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	NM 07105-A 3-1-52	USA-All	T. C. Stromberg	T. C. Stromberg and June B. Stromberg \$750 per acre out of 3%	T. C. Stromberg
26.	T-24-S, R-23-E Sec. 19: Lot 4, E $\frac{1}{2}$ W $\frac{1}{2}$ , W $\frac{1}{2}$ E $\frac{1}{2}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30: Lots 1, 2, E $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$	678.58	NM 07798 4-1-53	USA-All	Humble Oil & Refining Company	Howard Brawn and Lucille Brawn \$750 per acre out of 3%	Humble Oil & Refining Company
26-A.	T-24-S, R-23-E Sec. 30: NW $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	NM 07798-A 4-1-53	USA-All	Monsanto Company	Howard Brawn and Lucille Brawn \$750 per acre out of 3%	Monsanto Company
27.	T-24-S, R-23-E Sec. 30: E $\frac{1}{2}$ NE $\frac{1}{4}$	80.00	NM 07859 (Terminated) NM 046809 (New Lease) 7-1-60	USA-All	Barbara Talento	None	Barbara Talento
28.	T-24-S, R-22-E Sec. 36: Lot 2	40.25	NM 08091 (Terminated) NM 0316160 (New Lease) 3-1-63	USA-All	Winston R. Cornell	None	Winston R. Cornell

29.	<u>T-24-S, R-23-E</u> Sec. 19: <u>SE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u> Sec. 32: <u>NE<math>\frac{1}{4}</math>, S<math>\frac{1}{2}</math>NW<math>\frac{1}{4}</math>, S<math>\frac{1}{2}</math></u> Except <u>SE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math>, NE<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math></u>	600.00	NM 08108 7-1-52	USA-A11	Humble Oil & Refining Company	Berturand O. Baetz and Peggy Baetz \$750 per acre out of 3%	Humble Oil & Refining Company
29-A.	<u>T-24-S, R-23-E</u> Sec. 32: <u>SE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u>	40.00	NM 08108-A 7-1-52	USA-A11	Humble Oil & Refining Company	Berturand O. Baetz and Peggy Baetz \$750 per acre out of 3% Ruby F. Holder et vlr \$150 per acre out of $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
30.	<u>T-23-S, R-22-E</u> Sec. 14: <u>NW<math>\frac{1}{4}</math>SW<math>\frac{1}{4}</math></u> Sec. 33: <u>Lots 9, 11, 12, 13, 15</u> Sec. 34: <u>Lot 2</u>	106.30	NM 08948 4-1-53	USA-A11	Humble Oil & Refining Company	Claude Bate and Mrs. Eugenia Bate \$750 per acre out of 3%	Humble Oil & Refining Company
30-A.	<u>T-23-S, R-22-E</u> Sec. 33: <u>Lot 10</u>	42.13	NM 08948-A 4-1-53	USA-A11	Humble Oil & Refining Company	Claude Bate and Mrs. Eugenia Bate \$750 per acre out of 3% W. C. Ross \$150 per acre out of $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
31.	<u>T-24-S, R-22-E</u> Sec. 1: <u>Lots 3, 4, 5, 6, 7, SW<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math>, SW<math>\frac{1}{4}</math>, W<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math></u>	450.02	NM 014419 12-1-54	USA-A11	Humble Oil & Refining Company	N. F. Berchtold and Zoe Berchtold	Humble Oil & Refining Company
32.	<u>T-24-S, R-22-E</u> Sec. 12: <u>Lots 1, 2, 3, 4, W<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math>, W<math>\frac{1}{2}</math> (A11)</u>	605.65	NM 014420 12-1-54	USA-A11	Humble Oil & Refining Company	Yvonne H. Elliott and Harold A. Elliott	Humble Oil & Refining Company
33.	<u>T-24-S, R-22-E</u> Sec. 13: <u>Lots 1, 2, 3, 4, W<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math>, W<math>\frac{1}{2}</math> (A11)</u>	609.56	NM 014421 1-1-55	USA-A11	Delbasin Corporation	Peggy D. Ford and William T. Ford	Delbasin Corporation
34.	<u>T-24-S, R-23-E</u> Sec. 6: <u>Lots 1, 5, 6, 7, SE<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math>, SE<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math>, E<math>\frac{1}{2}</math>SW<math>\frac{1}{4}</math>, SE<math>\frac{1}{4}</math></u>	482.10	NM 014442 8-1-54	USA-A11	Humble Oil & Refining Company	H. C. Miller and Maxine Miller	Humble Oil & Refining Company
35.	<u>T-24-S, R-23-E</u> Sec. 7: <u>Lots 1, 2, 5, 6, 7, E<math>\frac{1}{2}</math>NW<math>\frac{1}{4}</math>, NE<math>\frac{1}{4}</math>, N<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math></u>	515.61	NM 014443 8-1-54	USA-A11	Humble Oil & Refining Company	Ned Nickson and Martha J. Nickson	Humble Oil & Refining Company

36.	T-24-S, R-23-E Sec. 18: Lots 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, E <sub>2</sub> NW <sub>4</sub> , SW <sub>2</sub> NE <sub>4</sub> , E <sub>2</sub> NE <sub>4</sub>	581.59	NM 014446 8-1-54	USA-All	Humble Oil & Refining Company	D. D. Patteson and Marjorie Jane Patteson	5%	Humble Oil & Refining Company
37.	T-24-S, R-23-E Sec. 21: SE <sub>2</sub> SW <sub>4</sub> , SW <sub>1</sub> SE <sub>4</sub>	80.00	NM 014447 8-1-54	USA-All	Humble Oil & Refining Company	Jack Carlson and Betty Jean Carlson Walter E. Dial and Catherine B. Dial	2 $\frac{1}{2}$ % 2 $\frac{1}{2}$ %	Humble Oil & Refining Company
38.	T-24-S, R-23-E Sec. 28: E <sub>2</sub> NE <sub>4</sub> , SE <sub>2</sub> NW <sub>4</sub> , S <sub>2</sub>	440.00	NM 014450-1 8-1-54	USA-All	Humble Oil & Refining Company	Gordon McMeen and Carol J. McMeen	5%	Humble Oil & Refining Company
39.	T-24-S, R-23-E Sec. 33: All	640.00	NM 014451-4 10-1-58	USA-All	Humble Oil & Refining Company	Betty B. Kimmel, Ind. & as Exec. of Lewis C. Kimmel, deceased	3%	Humble Oil & Refining Company
40.	T-24-S, R-23-E Sec. 34: All	640.00	NM 014452 8-1-54	USA-All	Delbasin Corporation	None		Delbasin Corporation

63 FEDERAL TRACTS, CONTAINING 29,266.32 ACRES, OR 75.7065% OF UNIT AREA

## STATE LAND

41.	T-24-S, R-23-E Sec. 20: NE $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	B-11434-4 9-11-44	STATE-All	Humble Oil & Refining Company	Otto E. Zwicker and Beatrice L. Zwicker	3%	Humble Oil & Refining Company
42.	T-24-S, R-23-E Sec. 21: NE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	B-11434-4 9-11-44	STATE-All	Humble Oil & Refining Company	Otto E. Zwicker and Beatrice L. Zwicker	3%	Humble Oil & Refining Company
43.	T-24-S, R-23-E Sec. 17: E $\frac{1}{2}$ NW $\frac{1}{4}$	80.00	E-488-2 8-10-45	STATE-All	Humble Oil & Refining Company	J.M. Kelly and Esther L. Kelly	5%	Humble Oil & Refining Company
44.	T-24-S, R-23-E Sec. 20: SW $\frac{1}{4}$	160.00	E-488-2 8-10-45	STATE-All	Humble Oil & Refining Company	J. M. Kelly and Esther L. Kelly	5%	Humble Oil & Refining Company
45.	T-23-S, R-22-E Sec. 16: SE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00		STATE-All				OPEN
46.	T-23-S, R-22-E Sec. 2: NE $\frac{1}{4}$ , SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$	234.36	E-7078-1 4-10-53	STATE-All	Humble Oil & Refining Company	None		Humble Oil & Refining Company
	Sec. 9: S $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 11: E $\frac{1}{2}$ EE $\frac{1}{4}$							
	Sec. 12: S $\frac{1}{4}$ SS $\frac{1}{4}$							
	Sec. 13: NW $\frac{1}{4}$ W $\frac{1}{2}$							
	Sec. 16: NW $\frac{1}{4}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 25: S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 36: All							
47.	T-24-S, R-23-E Sec. 5: W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$	3000.12	E-7079 4-9-53	STATE-All	Humble Oil & Refining Company	None		Humble Oil & Refining Company
	Sec. 8: W $\frac{1}{2}$ , SE $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$							
	Sec. 16: W $\frac{1}{2}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 17: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 20: NW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 21: NE $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$							
	Sec. 28: W $\frac{1}{2}$ NE $\frac{1}{4}$							

48.	T-23-S, R-22-E Sec. 2: SW $\frac{1}{4}$ SE $\frac{1}{4}$	1200.23	E-7528 10-20-53	STATE-All	Humble Oil & Refining Company	None	Humble Oil & Refining Company
	T-24-S, R-23-E Sec. 5: SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Lot 1 Sec. 16: SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 20: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 17: NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 22: W $\frac{1}{2}$ Sec. 27: All						
49.	T-24-S, R-23-E Sec. 5: Lot 3, NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 8: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 16: NW $\frac{1}{4}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 17: N $\frac{1}{2}$ SW $\frac{1}{4}$	280.05	E-8277-1 6-15-54	STATE-All	Humble Oil & Refining Company	None	Humble Oil & Refining Company
50.	T-23-S, R-22-E Sec. 16: NW $\frac{1}{4}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$	200.00	E-8270-1 6-15-54	STATE-All	Humble Oil & Refining Company	None	Humble Oil & Refining Company

10 STATE TRACTS, CONTAINING 7,354.76 ACRES, OR 19.0254% OF UNIT AREA

FEE LAND

51.	<u>T-23-S, R-22-E</u> Sec. 33: Lot 14 Sec. 34: Lots 3, 6	56.69	FEE	Howard H. and Elizabeth M. Wester	ALL		OPEN
	<u>T-24-S, R-22-E</u> Sec. 3: Lot 6						
52.	<u>T-23-S, R-22-E</u> Sec. 13: $E\frac{1}{2}SE\frac{1}{4}$ Lot 2 Sec. 24: $N\frac{1}{2}NE\frac{1}{4}$ , $SE\frac{1}{4}NE\frac{1}{4}$	305.06	FEE	John R. Joyce II & Company	ALL		OPEN
53.	<u>T-23-S, R-22-E</u> Sec. 25: $SE\frac{1}{4}SE\frac{1}{4}$	164.65	FEE	C. P. Pardue and Mattie E. Pardue, John Gultar, Jr., Trustee, and Repps B. Gultar, Trustee - 25% John R. Joyce II & Company - 75%	ALL		OPEN
	<u>T-23-S, R-23-E</u> Sec. 30: Lots 3, 4, $SE\frac{1}{4}SW\frac{1}{4}$						
54.	<u>T-24-S, R-22-E</u> Sec. 1: Lots 1, 2, $SW\frac{1}{4}NE\frac{1}{4}$ , $SE\frac{1}{4}NW\frac{1}{4}$	310.01	FEE	John R. Joyce II & Company	ALL		OPEN
	<u>T-24-S, R-23-E</u> Sec. 6: Lots 2, 3, 4, $SW\frac{1}{4}NE\frac{1}{4}$						
55.	<u>T-24-S, R-23-E</u> Sec. 7: $S\frac{1}{2}SE\frac{1}{4}$ , $SE\frac{1}{4}SW\frac{1}{4}$ Sec. 18: $NW\frac{1}{4}NE\frac{1}{4}$	160.00	FEE	John R. Joyce II & Company	ALL		OPEN
56.	<u>T-23-S, R-22-E</u> Sec. 23: $SW\frac{1}{4}NE\frac{1}{4}$ , $S\frac{1}{2}NW\frac{1}{4}$ , $NW\frac{1}{4}SW\frac{1}{4}$	160.00	FEE	John R. Joyce II & Company	ALL		OPEN
57.	<u>T-24-S, R-22-E</u> Sec. 25: $S\frac{1}{2}SE\frac{1}{4}$ , $SE\frac{1}{4}SW\frac{1}{4}$ Sec. 36: $NE\frac{1}{4}NE\frac{1}{4}$	880.10 3-21-58	FEE	J. B. Foster	ALL	Humble Oil & Refining Company	None Humble Oil & Refining Company

Tract No. 57 continued

T-24-S, R-23-E  
 Sec. 30: S $\frac{1}{2}$ S $\frac{1}{2}$  NE $\frac{1}{4}$ SW $\frac{1}{4}$   
 Sec. 29: S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ ,  
 N $\frac{1}{2}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$   
 Sec. 32: NW $\frac{1}{4}$ NW $\frac{1}{4}$   
 Sec. 28: N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$   
 Sec. 21: SW $\frac{1}{4}$ SW $\frac{1}{4}$   
 Sec. 31: NW $\frac{1}{4}$ NW $\frac{1}{4}$

7 FEE TRACTS, CONTAINING 2,036.51 ACRES, OR 5.2681% OF UNIT AREA

TOTAL 80 TRACTS, CONTAINING 38,657.59 ACRES, HAPACHE UNIT AREA, EDDY COUNTY, NEW MEXICO

LANDS INCLUDED IN EXPANDED AREA

FEDERAL LANDS

58.	<u>T-24-S, R-22-E</u> Sec. 15: $W\frac{1}{2}$ Sec. 16: All Sec. 21: $NW\frac{1}{4}$ , $NW\frac{1}{4}NE\frac{1}{4}$ , $NW\frac{1}{4}SE\frac{1}{4}$ Sec. 22: $N\frac{1}{2}NW\frac{1}{4}$	1280.00	LC 065905	USA-All	Humble Oil & Refining Company	Union Oil Company of California - 6.25% to 12.50% Merrill Max Seaton \$500 per acre out of 3%	Humble Oil & Refining Company
58-A.	<u>T-24-S, R-22-E</u> Sec. 21: $NE\frac{1}{4}SE\frac{1}{4}$	40.00	LC 065905-F	USA-All	Humble Oil & Refining Company	Union Oil Company of California - 6.25% to 12.50% Merrill Max Seaton \$500 per acre out of 3% A. C. Holder et ux \$150 per acre out of $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
59.	<u>T-24-S, R-22-E</u> Sec. 15: $SE\frac{1}{4}$	160.00	LC 065905-A	USA-All	Humble Oil & Refining Company	Merrill Max Seaton \$500 per acre out of 3% Monsanto Company 6.25%	Humble Oil & Refining Company
59-A.	<u>T-24-S, R-22-E</u> Sec. 22: $NW\frac{1}{4}NE\frac{1}{4}$	40.00	LC 065905-G	USA-All	Humble Oil & Refining Company	Merrill Max Seaton \$500 per acre out of 3% Monsanto Company 6.25% A. C. Holder \$150 per acre out of $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
60.	<u>T-24-S, R-22-E</u> Sec. 9: $SW\frac{1}{4}SW\frac{1}{4}$	40.00	LC 065905-D	USA-All	Humble Oil & Refining Company	Merrill Max Seaton \$500 per acre out of 3%	Humble Oil & Refining Company
60-A.	<u>T-24-S, R-22-E</u> Sec. 9: $N\frac{1}{2}SW\frac{1}{4}$ , $SE\frac{1}{4}SW\frac{1}{4}$	120.00	LC 065905-H	USA-All	Humble Oil & Refining Company	Merrill Max Seaton \$500 per acre out of 3%	Humble Oil & Refining Company
61.	<u>T-24-S, R-22-E</u> Sec. 17: $NW\frac{1}{4}$ , $N\frac{1}{2}SW\frac{1}{4}$ , $SW\frac{1}{4}SW\frac{1}{4}$	280.00	LC 065905-C	USA-All	Pan American Petroleum Corporation	Merrill Max Seaton \$500 per acre out of 3%	Pan American Petroleum Corporation



61-A	T-24-S, R-22-E Sec. 17: SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	LC 065905-I 8-1-52	USA-All	Hoover H. Wright	Merrill Max Seaton \$500 per acre out of 3%	Hoover H. Wright
62.	T-24-S, R-22-E Sec. 27: NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$	320.00	LC 066046 (Terminated) NM 0556076 (New Lease) 6-1-65	USA-All	Mrs. Estelle Parker	None	Mrs. Estelle Parker
62-A.	T-24-S, R-22-E Sec. 27: SW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	LC 066046-J 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$500 per acre out of 3%	Humble Oil & Refining Company
63.	T-24-S, R-22-E Sec. 22: E $\frac{1}{2}$ NE $\frac{1}{4}$	80.00	LC 066046-E 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$500 per acre out of 3%	Humble Oil & Refining Company
63-A.	T-24-S, R-22-E Sec. 22: SW $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	LC 066046-K 12-1-52	USA-All	Monsanto Company	G. C. Weaver \$500 per acre out of 3%	Monsanto Company
64.	T-24-S, R-22-E Sec. 23: SW $\frac{1}{4}$ Sec. 26: SE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$	600.00	LC 066046-A 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$750 per acre out of 3%	Humble Oil & Refining Company
64-A.	T-24-S, R-22-E Sec. 26: NW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	LC 066046-I 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$750 per acre out of 3%	Humble Oil & Refining Company
65.	T-24-S, R-22-E Sec. 21: S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 22: S $\frac{1}{2}$	400.00	LC 066046-C 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$500 per acre out of 3%	Humble Oil & Refining Company
65-A.	T-24-S, R-22-E Sec. 22: SE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	LC 066046-F 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$500 per acre out of 3%	Humble Oil & Refining Company

G. C. Weaver  
 \$500 per acre out of 3%  
 A. C. Holder  
 \$150 per acre out of  
 $\frac{1}{2}$  of 1%  
 Union Oil Company of  
 California  
 6.25% to 12.50%

66.	<u>T-24-S, R-22-E</u> Sec. 17: <u>NE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u>	40.00	IC 066046-D 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$500 per acre out of 3%	Humble Oil & Refining Company
66-A.	<u>T-24-S, R-22-E</u> Sec. 17: <u>NW<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math>, S<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math></u>	120.00	IC 066046-H 12-1-52	USA-All	Humble Oil & Refining Company	G. C. Weaver \$500 per acre out of 3%	Humble Oil & Refining Company
67.	<u>T-24-S, R-22-E</u> Sec. 23: <u>NE<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math>, S<math>\frac{1}{2}</math>NW<math>\frac{1}{4}</math></u> Sec. 26: <u>NE<math>\frac{1}{4}</math></u>	280.00	NM 0937 12-1-52	USA-All	Humble Oil & Refining Company	Pauline A. Bunnell \$750 per acre out of 3%	Humble Oil & Refining Company
67-A.	<u>T-24-S, R-22-E</u> Sec. 23: <u>NW<math>\frac{1}{4}</math>NW<math>\frac{1}{4}</math></u>	40.00	NM 0937-C 12-1-52	USA-All	Humble Oil & Refining Company	Pauline A. Bunnell \$750 per acre out of 3% Vee K. Ross \$150 per acre out of $\frac{1}{2}$ of 1%	Humble Oil & Refining Company
68.	<u>T-24-S, R-22-E</u> Sec. 17: <u>SW<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math></u>	40.00	NM 07649-A 9-1-52	USA-All	Humble Oil & Refining Company	Emily K. Connell 3%	Humble Oil & Refining Company
68-A.	<u>T-24-S, R-22-E</u> Sec. 17: <u>SE<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math></u>	40.00	NM 07649-B 9-1-52	USA-All	Emmett D. White	Emily K. Connell 3%	Emmett D. White
69.	<u>T-24-S, R-22-E</u> Sec. 27: <u>W<math>\frac{1}{2}</math>SE<math>\frac{1}{4}</math>, S<math>\frac{1}{2}</math>SW<math>\frac{1}{4}</math>, NE<math>\frac{1}{4}</math>SW<math>\frac{1}{4}</math>, SE<math>\frac{1}{4}</math>SE<math>\frac{1}{4}</math></u>	240.00	NM 022618 (Terminated) NM 0556844 (New Lease) 8-1-65	USA-All	J. Burns	None	J. Burns
69-A.	<u>T-24-S, R-22-E</u> Sec. 27: <u>NW<math>\frac{1}{4}</math>SW<math>\frac{1}{4}</math></u>	40.00	NM 022618-B 4-1-53	USA-All	Humble Oil & Refining Company	Sue Saunders Graham \$500 per acre out of 3%	Humble Oil & Refining Company
70.	<u>T-24-S, R-22-E</u> Sec. 28: <u>S<math>\frac{1}{2}</math>NE<math>\frac{1}{4}</math>, NW<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math></u>	120.00	NM 022618-A (Terminated) NM 0556845 (New Lease) 8-1-65	USA-All	Union Oil Company of California*	Richard P. and Thelma F. Desmet 5%	Union Oil Company of California*
70-A.	<u>T-24-S, R-22-E</u> Sec. 28: <u>NE<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math></u>	40.00	NM 022618-C 4-1-53	USA-All	Humble Oil & Refining Company	Sue Saunders Graham \$500 per acre out of 3%	Humble Oil & Refining Company

\*Successor by merger to The Pure Oil Company

72.	T-24-S, R-22-E	1040.00	NM 036717	USA-All	Humble Oil &	Neil H. Wills	Humble Oil &
	Sec. 8: All		12-1-57		Refining Company	\$500 per acre out of 3%	Refining Company
	Sec. 9: NW $\frac{1}{4}$ , SE $\frac{1}{4}$						
	Sec. 17: NE $\frac{1}{4}$ NE $\frac{1}{4}$						

27 FEDERAL TRACTS CONTAINING 5600 ACRES OR 94.5946% OF THE LANDS INCLUDED IN THE EXPANDED UNIT AREA

STATE LANDS

None

FEE LANDS

72.	T-24-S, R-22-E	320.00	FEE	J. B. Foster	ALL	Humble Oil &	None	Humble Oil &
	Sec. 21: SW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NE $\frac{1}{4}$	3-21-58				Refining Company		Refining Company
	Sec. 22: SW $\frac{1}{4}$ NE $\frac{1}{4}$							

1 FEE TRACT CONTAINING 320 ACRES OR 5.4054% OF THE LANDS TO BE INCLUDED IN THE EXPANDED UNIT AREA

Total: (Area to be included by expansion)

27 Federal Tracts	5600 Acres -- 94.5946%
1 Fee Tract	320 Acres -- 5.4054%
<hr/> 28 Tracts	<hr/> 5920 Acres --100.0000%

TOTAL LANDS - HUAPACHE UNIT AREA BEFORE EXPANSION AND AS EXPANDED

Unit Before Expansion

63 Federal Tracts containing 29,266.32 Acres or 75.7065% of Unit Area  
10 State Tracts containing 7,354.76 Acres or 19.0254% of Unit Area  
7 Fee Tracts containing 2,036.51 Acres or 5.2681% of Unit Area  
80 Tracts 38,657.59 Acres 100.0000%

Area Included in Expansion

27 Federal Tracts containing 5600 Acres or 94.5946% of land to be included  
1 Fee Tract containing 320 Acres or 5.4054% of land to be included  
28 Tracts 5920 Acres 100.0000%

Huapache Unit Area as Expanded

90 Federal Tracts containing 34,866.32 Acres or 78.2149% of Expanded Unit Area  
10 State Tracts containing 7,354.76 Acres or 16.4988% of Expanded Unit Area  
8 Fee Tracts containing 2,356.51 Acres or 5.2863% of Expanded Unit Area  
108 Tracts 44,577.59 Acres 100.0000%

C  
O  
P  
Y

741  
September 20, 1965

Humble Oil & Refining Company  
Post Office Box 1600  
Midland, Texas

In RE: Huapache Unit Agreement  
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has approved as of this date the Plan of Development for the period ending October 1, 1966, subject to like approval by the United States Geological Survey.

This Plan provides for the drilling of a Pennsylvania Test Well in the NE/4 of Section 1-T23S-R22E by Hanagan Petroleum Corporation.

We are handing to Mr. John Brooks five (5) approved copies of this Plan.

Very truly yours,

GUYTON B. HAYS,  
Commissioner of Public Lands

By

TED BILBERRY, Director,  
Oil and Gas Department

GBH/TB/MMR/1/Enclosures

w/cc to: United States Geological Survey  
New Mexico Oil Conservation Commission

MAILED  
SEP 21 1965

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

September 21, 1965

C  
O  
P  
Y  
  
Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas

Attention: Mr. Bill R. Payne

Re: Plan of Development  
October 1, 1965 to  
October 1, 1966, Haupache  
Unit, Eddy County, New  
Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the period October 1, 1965 to October 1, 1966 providing for the drilling of a Pennsylvanian test well for the Haupache Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the plan are handed to Mr. John Brooks.

Very truly yours,

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

ALP/JEK/og

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands - Santa Fe

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS

MIDLAND AREA

September 17, 1965

POST OFFICE BOX 1600

In re: Plan of Development  
Huapache Unit  
Eddy County, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico

Regional Supervisor  
United States Geological Survey  
Post Office Box 1857

Director  
New Mexico Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico

Gentlemen:

In compliance with Section 10 of the Huapache Unit Agreement, Humble Oil & Refining Company, as Unit Operator, submits for approval of the Commissioner of Public Lands, the Regional Supervisor of the United States Geological Survey and the Director of the New Mexico Oil Conservation Commission, the following plan for the further development and operation of the Huapache Unit Area for the remainder of the calendar year 1965 and for nine months of the calendar year 1966 ending October 1, 1966:

- 1) In our letter of July 13, 1965, requesting an extension of time to October 1, 1965, in which to submit a further plan of development for the Huapache Unit, Unit Operator agreed to submit either a plan of development for a six-months period providing for the drilling of a Yezo test or a plan of development for a one-year period providing for the drilling of a Pennsylvanian test.
- 2) Humble, as Unit Operator, has now entered into an agreement with Hanagan Petroleum Corporation which provides for the drilling of a Pennsylvanian test in the NW/4 NE/4 Section 1, T.23S., R.22E. within the above specified time period. This test should help to evaluate the Pennsylvanian Formation in the northeast area of this unit.

Public Lands, et al

-2-

September 17, 1965

In view of the firm agreement with Hanagan Petroleum Corporation for the further development of this Unit, Humble Oil & Refining Company, as Unit Operator, respectfully requests your approval of the above-noted operations as our Plan of Development for the Period from October 1, 1965, to October 1, 1966.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By: Bill R. Payne  
Agent and Attorney-in-Fact

JSC/ed

APPROVED:

Newton B. Sayre  
Commissioner of Public Lands

DATE: September 20, 1965

\_\_\_\_\_  
Regional Supervisor,  
United States Geological Survey

DATE: \_\_\_\_\_

A. L. Bortner Jr.  
Director,  
New Mexico Oil Conservation Commission

DATE: 9/21/65



OIL CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

741

July 21, 1965

C  
O  
P  
Y

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: Time Extension for Filing  
Plan of Development  
Huapache Unit, Eddy County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved your request for an extension of time to October 1, 1965, in which to submit a further Plan of Development for the Huapache Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the application is returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

Drawer 1857  
Roswell, New Mexico 88201

MAIN OFFICE  
JUL 22 1965

July 20, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your letter of July 13 requests an extension of time to October 1, 1965, within which to file the next plan of development for the Huapache unit, Eddy County, New Mexico, in order to complete negotiations for a Pennsylvanian test well to be drilled within the unit area. You advise that the next plan of development will provide for the drilling of a Pennsylvanian test within one year or a Yesso well within six months.

You are hereby granted an extension of time to October 1, 1965, within which to file the next plan of development for the Huapache unit subject to like approval by the appropriate State officials.

Sincerely yours,

CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil & Gas Supervisor

cc:  
Washington (w/cy of July 13 ltr.)  
Artesia (w/cy of July 13 ltr.)  
N.M.O.C.C. - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands - Santa Fe (ltr. only)

MAIN 01  
'65 JUL 22 PM 12

July 20, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: Huapacha Unit  
Eddy County, N.M.

Gentlemen:

The Commissioner of Public Lands has approved as of July 20, 1965, your application for a three-months extension of time, or until October 1, 1965, in which to submit a further plan of development for the Huapacha Unit. This extension is granted with the understanding that on or before October 1 unit operator will submit either a plan of development for a six-months period providing for the drilling of a yeso test or a plan of development for a one-year period providing for a Pennsylvanian test.

The Commissioner's approval is subject to like approval by the United States Geological Survey and the N. M. Oil Conservation Commission. We are enclosing one approved copy of this application.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

By

(Mr.) Ted Bilberry, Director  
Oil and Gas Department

GBH:MR:oc  
encl.

cc: United States Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico  
Attention: Mr. John A. Anderson

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

HUMBLE OIL & REFINING COMPANY  
SOUTHWEST REGION  
P. O. BOX 1597  
ROSWELL, NEW MEXICO

July 13, 1965

MAILED  
JUL 16 1965

In re: Request for Extension of Time for  
Filing Plan of Development  
Huapache Unit 14-08-001-1668  
Eddy County, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico

Regional Supervisor  
United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico

Director  
New Mexico Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico

Gentlemen:

Under letter dated June 28, 1965, Humble Oil & Refining Company as Unit Operator, submitted for approval a Plan of Development for the Huapache Unit Area for a one-year period providing for the drilling of a Yeso test in Section 10, T-24-S, R-22-E. Unit Operator is now asking that said Plan of Development be disregarded as it now appears that we will be successful in causing a deeper test to be drilled to test the Pennsylvanian Formation between the approximate depths of 8,000 and 10,000 feet. Such a test is to be located in the area northeast of the Huapache Unit Well No. 10, the discovery well on this unit, and will be designed to further evaluate the area north and east of this discovery well. Negotiations of the terms of the farmout are now under way covering the drilling of this test and it is hoped that the trade will be consummated in the very near future.

Page 2

July 13, 1965

In view of the foregoing, Humble Oil & Refining Company as Unit Operator, respectfully requests a three-months extension of time or until October 1, 1965, in which to submit a further Plan of Development for the Huapache Unit. On or before October 1, 1965, Unit Operator agrees to submit either a Plan of Development for a six-months period providing for the drilling of a Yeso test as outlined in our letter of June 28, 1965, or, a Plan of Development for a one-year period providing for the Pennsylvanian test under the farmout arrangement.

The above, when approved by the Commissioner of Public Lands, the Regional Supervisor of the United States Geological Survey and the Director, New Mexico Oil Conservation Commission, shall constitute the same as the Plan of Development for the period from July 1, 1965 to October 1, 1965, and shall supersede the above mentioned letter of June 28, 1965.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

*John S. Cron*  
John S. Cron

JSC/mk

THREE-MONTHS EXTENSION APPROVED:

\_\_\_\_\_  
Commissioner of Public Lands

Date: \_\_\_\_\_

\_\_\_\_\_  
Regional Supervisor, U.S.G.S.

Date: \_\_\_\_\_

*W. L. Porter*  
\_\_\_\_\_  
Director, New Mexico Oil  
Conservation Commission

Date: *July 24, 1965*

Drawer 1057  
Roswell, New Mexico 88201

MAIN OFFICE

'65 JUL 15 PM 1 12

July 14, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

We acknowledge receipt of the following ratification and joinder relating to the Huisache unit agreement, No. 14-08-001-1668, Eddy County, New Mexico:

<u>Joinder to</u>	<u>Date Received</u>	<u>Executed by</u>
Unit agreement and unit operating agreement	July 13, 1965	Richard P. and Thelma F. De Smet, as lessors of record and working interest owner of Federal lease #1 0556845.

Section 30 of the Huisache unit agreement requires that copies of such ratification and joinder be filed with the Commissioner of Public Lands, State of New Mexico, and the New Mexico Oil Conservation Commission. Subject to compliance with the foregoing requirement, the portion of unit tract No. 70 covered by lease New Mexico 0556845 described as the SE1/4 and W1/4 sec. 28, T. 24 S., R. 22 E., N.M.P.M., will be considered effectively committed to the Huisache unit agreement as of the effective date of the lease.

Copies of the ratification and joinder are being distributed to the appropriate Federal offices.

Sincerely yours,

CARL G. TRAYWICK  
Acting Oil & Gas Supervisor

cc:  
Washington (w/cy of joinder)  
BLL - Santa Fe (w/cy of joinder)  
Artesia (w/cy of joinder)  
Com. of Pub. Lands - Santa Fe (ltr. only)  
BROCC - Santa Fe (ltr. only)✓  
Accounts

June 30, 1965

In re: Plan of Development for Remainder of 1965  
and First Six Months of 1966  
Huapache Unit, No. 14-08-001-1668  
Eddy County, New Mexico

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico  
Attention: Mrs. Marian M. Rhea

United States Geological Survey  
P. O. Box 1857  
Roswell, New Mexico  
Attention: Mr. John A. Anderson, Regional  
Oil and Gas Supervisor

Gentlemen:

We are enclosing to each of you five copies of our Application for Approval of Plan of Development for the remainder of 1965 and first six months of 1966.

Upon the approval of this Application by the Commissioner of Public Lands, we would appreciate the Commissioner forwarding at least four copies to the Oil Conservation Commission for their approval. When the Application is approved by the Regional Supervisor of the United States Geological Survey, we would appreciate receiving one approved copy of our Application, in order that we may notify the State of the U.S.G.S. approval.

If there should be any questions in regard to this Application, please let us know. We wish to thank each of you in advance for your consideration of this application.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC:fd

Encls.

REGISTERED MAIL

cc: New Mexico Oil Conservation Commission ✓

741  
June 28, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John H. Brooks

Re: Huapache Unit  
Eddy County, New Mexico

Gentlemen:

This will acknowledge receipt of Consent and Ratification of Huapache Unit Agreement and Consent and Ratification of Huapache Operating Agreement which were executed by Richard P. DeSmet and Thelma F. DeSmet, his wife. These instruments have been appropriately filed.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mr.) Ted Hilberry, Director  
Oil and Gas Department

GBH/MMR/d

cc: United States Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico  
Attention: Mr. John A. Anderson

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





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

IN REPLY REFER TO:

June 25, 1965

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John B. Cron

Gentlemen:

We hereby acknowledge receipt of the following ratification and joinder relating to the Huapache unit agreement, No. 14-08-001-1668, Eddy County, New Mexico:

<u>Joinder to</u>	<u>Date Received</u>	<u>Executed by</u>
Unit agreement and unit operating agreement	June 21, 1965	J. Burns and wife, B. Burns, who will become lessee of record and working interest owner under lease NM 0556844 when issued, a portion of unit tract No. 69.

Section 30 of the Huapache unit agreement requires that copies of such ratification and joinder be filed with the Commissioner of Public Lands, State of New Mexico, and the New Mexico Oil Conservation Commission. Subject to compliance with the foregoing requirement, the lands covered by lease New Mexico 0556844 (NE $\frac{1}{4}$ SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , and S $\frac{1}{2}$ SW $\frac{1}{4}$  sec. 27, T. 24 S., R. 22 E., N.M.P.M.) will be considered effectively committed to the Huapache unit agreement as of the effective date of the lease.

Copies of the ratification and joinder are being distributed to the appropriate Federal offices. All copies surplus to our needs are returned herewith.

Sincerely yours,

(REG. SEC.) BILLY J. SHOGER

cc:  
Washington (w/cy of joinder)  
BLM - Santa Fe (w/cy of joinder)  
Artesia (w/cy of joinder)  
Com. of Pub. Lands - Santa Fe (ltr. only)  
N.M.O.C.C. - Santa Fe (ltr. only)  
Accounts

BILLY J. SHOGER  
Acting Oil & Gas Supervisor

June 24, 1965

In re: Huspache Unit  
USA Lease NM 0556845  
SE/4 NE/4, W/2 NE/4 Sec. 28,  
T-24-S, R-22-E  
Eddy County, New Mexico

Mr. Michael T. Solan, Manager  
Bureau of Land Management  
P. O. Box 1449  
Santa Fe, New Mexico

Dear Sir:

In connection with the captioned lease we enclose four copies each of Consent and Ratification of Huspache Unit Agreement and Consent and Ratification of Huspache Operating Agreement, which have been executed by Richard P. DeSmet and wife, Thelma F. DeSmet and accepted by Humble Oil & Refining Company, as unit operator.

We would appreciate your advising the effective date of the commitment of this federal lease to the Huspache Unit.

If you should have any questions regarding this matter or if we may furnish additional information, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John H. Broocks

JHB:fd

Encls.

REGISTERED MAIL

cc, w/copy of each enclosure:  
United States Geological Survey  
P. O. Drawer 1857, Roswell, New Mexico  
Attn: Mr. John A. Anderson  
Commissioner of Public Lands  
P. O. Box 1148, Santa Fe, New Mexico  
Attn: Mrs. Marian Rhea  
Director, New Mexico OCC  
P. O. Box 871, Santa Fe, New Mexico

cc, no encl.:  
Mr. Richard P. DeSmet  
1631 12th Avenue  
Sacramento 18, California

CONSENT AND RATIFICATION

HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR  
THE UNDERSIGNED UNIT OPERATOR DOES HEREBY  
ACCEPT AND APPROVE THE ABOVE AND FOREGOING  
CONSENT AND RATIFICATION

HUMBLE OIL & REFINING COMPANY

Richard P. De Smet  
Richard P. De Smet  
Thelma F. De Smet  
Thelma F. De Smet

DATE 4/22/65 BY J. E. Bottler, Jr.  
STATE OF CALIFORNIA AGENT AND ATTORNEY-IN-FACT  
COUNTY OF San Bernardino SS.

The foregoing instrument was acknowledged before me on this 9  
day of April, 1963 by Richard P. De Smet and wife, Thelma F. De Smet.  
1965

My Commission Expires:

Notary Public

STATE OF California  
COUNTY OF Midland

The foregoing instrument was acknowledged before me on this 22<sup>nd</sup>  
day of June, 1963 by J. E. Bottler, Jr.  
AGENT AND ATTORNEY-IN-FACT of Humble Oil & Refining Company, a  
Corporation, on behalf of said Corporation.

My Commission Expires:  
My Commission Expires  
June 1, 1966

Sheila A. DeVOY  
Notary Public  
SHEILA A. DeVOY - Notary Public  
Midland County, Texas

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNES. WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR  
THE UNDERSIGNED UNIT OPERATOR DOES HEREBY  
ACCEPT AND APPROVE THE ABOVE AND FOREGOING  
CONSENT AND RATIFICATION

HUMBLE OIL & REFINING COMPANY

DATE 6/22/65 BY J. S. Botter, Jr.  
AGENT AND ATTORNEY-IN-FACT  
STATE OF Texas }  
COUNTY OF Midland } SS.

Richard P. De Smet  
Richard P. De Smet  
Sheila A. De Smet  
Sheila A. De Smet

The foregoing instrument was acknowledged before me on this  
22nd day of June, 1965, by J. S. Botter, Jr.,  
AGENT AND ATTORNEY-IN-FACT of Humble Oil & Refining Company,  
a Corporation, on behalf of said Corporation.

My Commission Expires:  
My Commission Expires  
June 1, 1968

Sheila A. DeVOY  
Notary Public  
SHEILA A. DeVOY - Notary Public  
Midland County, Texas

STATE OF CALIFORNIA }  
COUNTY OF San Diego } SS.

The foregoing instrument was acknowledged before me on this  
22nd day of June, 1965, by Richard P. De Smet and wife,  
Sheila A. De Smet,  
1965

My Commission Expires:

Sheila A. DeVOY  
Notary Public

March 26, 1965

In re: Huapache Unit  
USA Lease NM 0556076 - Estelle Parker  
320 acres, Sec. 27, T-24-S, R-22-S  
Eddy County, New Mexico

Mr. Michael T. Solan, Manager  
Bureau of Land Management  
P. O. Box 1449  
Santa Fe, New Mexico

Dear Sir:

In connection with the captioned lease we enclose herewith four copies each of Consent and Ratification of Huapache Unit Agreement and Consent and Ratification of Huapache Operating Agreement, which have been executed by Estelle Parker et vir and accepted by Humble Oil & Refining Company, as Unit Operator.

We would appreciate your advising the effective date of the commitment of this federal lease to the Huapache Unit.

If you should have any questions regarding this matter or if we may furnish additional information, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC:fd

Encls.

REGISTERED MAIL

cc, w/copy of each encl.:

United States Geological Survey  
P. O. Drawer 1857, Roswell, New Mexico

Attn: Mr. John Anderson  
Commissioner of Public Lands  
P. O. Box 1148, Santa Fe, New Mexico  
Attn: Mrs. Marion Rasm  
Director, New Mexico OCC  
P. O. Box 871, Santa Fe, New Mexico

Major and Giebel  
1204 Vaughn Building, Midland, Texas

CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

3-16-65  
3-16-65

Estelle Parker  
Robert Parker

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

DATE 3-25-65 HUMBLE OIL & REFINING COMPANY

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1965 by R. B. McCall  
of \_\_\_\_\_  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

Notary Public

STATE OF TEXAS }  
COUNTY OF DALLAS } SS.

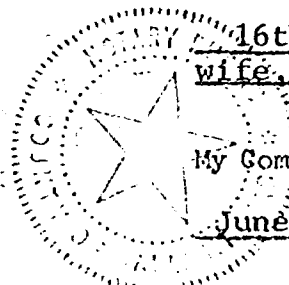
The foregoing instrument was acknowledged before me on this  
16th day of March, 1965 by K. H. Parker and  
wife, Estelle Parker.

My Commission Expires:

Notary Public

June 1, 1965

APPROVED	
Disc.	<input checked="" type="checkbox"/>
Assign	<input checked="" type="checkbox"/>
Int.	<input checked="" type="checkbox"/>
Form	<input checked="" type="checkbox"/>
Trade	<input checked="" type="checkbox"/>



CONSENT AND RATIFICATION

HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

Estelle Parker  
K.H. Parker

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

I, THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

STATE OF TEXAS

COUNTY OF DALLAS

HUMBLE OIL & REFINING COMPANY

DATE 3-25-65

BY

R. H. McEnt

The foregoing instrument was acknowledged before me on this 16th day of March, 1965 by K.H. Parker & wife, Estelle Parker.

My Commission Expires:

June 1, 1965

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Naene N. Reaser  
Notary Public

APPROVE	
Desc.	<u>[Signature]</u>
Accege	<u>[Signature]</u>
Int.	<u>[Signature]</u>
Form	<u>[Signature]</u>
Trade	<u>[Signature]</u>

The foregoing instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 1965 by \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

May 21, 1965

In re: Hualapai Unit  
UEA Lease NM 0556844  
240 acres, Sec. 27, T-24-S, R-22-E  
Eddy County, New Mexico

Mr. Michael T. Solan, Manager  
Bureau of Land Management  
P. O. Box 1449  
Santa Fe, New Mexico

Dear Sir:

In connection with the captioned lease we enclose herewith four copies each of Consent and Ratification of Hualapai Unit Agreement and Consent and Ratification of Hualapai Operating Agreement, which have been executed by J. Burns et ux and accepted by Humble Oil & Refining Company, as Unit Operator.

We would appreciate your advising the effective date of the commitment of this federal lease to the Hualapai Unit.

If you should have any questions regarding this matter or if we may furnish additional information, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

John S. Cron

JSC:jm  
Enclosures  
REGISTERED MAIL

cc, w/copy of each enclosure:

United States Geological Survey  
P. O. Drawer 1857, Roswell, New Mexico  
Attn: Mr. John Anderson  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico  
Attn: Mrs. Marian Rhea  
✓ Director, New Mexico OCC  
P. O. Box 871, Santa Fe, New Mexico  
Mr. Robert M. Enfield  
P. O. Box 807, Roswell, New Mexico



CONSENT AND RATIFICATION OF UNIT OPERATING AGREEMENT  
IN CONNECTION WITH HUAPACHE UNIT AGREEMENT EMBRACING LANDS  
IN EDDY COUNTY, NEW MEXICO

The undersigned (whether one or more) has simultaneously here-  
with committed certain oil and gas leasehold interests to the Unit Agreement  
for the development and operation of the Huapache Unit Area embracing lands  
situated in Eddy County, New Mexico, which said Unit Agreement is dated  
July 1, 1954, and hereby acknowledges receipt of a copy of the Unit Operating  
Agreement, as amended by the inclusion of Supplemental Exhibit "B", entered  
into by and between working interest owners committing oil and gas lease-  
hold interests to said Unit Agreement, and acknowledges that the undersigned  
has read the same and is familiar with all of the terms and conditions  
thereof and does hereby consent to said Unit Operating Agreement, as  
amended, and does hereby ratify all of the terms and provisions thereof  
exactly the same as if the undersigned had executed the original of said  
Unit Operating Agreement, as amended by the inclusion of Supplemental  
Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF this instrument is executed as of the date  
set forth opposite their respective signatures by the undersigned.

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND  
APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

DATE 5-18-65 HUMBLE OIL & REFINING COMPANY X

BY L. R. McCreath

APPROVED	
Desc.	<u>HC</u>
Acreage	<u>500</u>
Int.	<u>500</u>
Form	<u>500</u>
Trade	<u>500</u>

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.

The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_  
of \_\_\_\_\_  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires: \_\_\_\_\_

Notary Public

STATE OF New York }  
COUNTY OF New York } SS.

The foregoing instrument was acknowledged before me on this  
4 day of May, 1963 by J. P. Burns AND  
WIFE, P. J. Burns.

My Commission Expires: \_\_\_\_\_

March 30, 1966

Notary Public

HELEN P. BROWN  
Notary Public, State of New York  
No. 314547  
Qualified in New York County  
Commission Expires March 30, 1966

# CONSENT AND RATIFICATION

## HUAPACHE UNIT AGREEMENT

The undersigned (whether one or more) hereby acknowledge receipt of a copy of the Unit Agreement for the Development and Operation of the Huapache Unit Area embracing lands situated in Eddy County, New Mexico, which said agreement is dated the 1st day of July, 1954, and acknowledge that they have read the same and are familiar with the terms and conditions thereof. The undersigned also being the owners of the leasehold, royalty or other interest in the lands or minerals embraced in said unit area, as indicated on the schedule attached to said unit agreement as Supplemental Exhibit "B", do hereby commit all of their said interest to the Huapache Unit Agreement, as amended, and do hereby consent thereto and ratify all of the terms and provisions thereof, exactly the same as if the undersigned had executed the original of said unit agreement, as amended by the inclusion of Supplemental Exhibit "B", or a counterpart thereof.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth in their respective acknowledgments.

### ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

THE UNDERSIGNED UNIT OPERATOR DOES HEREBY ACCEPT AND APPROVE THE ABOVE AND FOREGOING CONSENT AND RATIFICATION

DATE 5-18-65 HUMBLE OIL & REFINING COMPANY

BY R. B. McComb

APPROVED	
Desc.	<u>OC</u>
Acreage	<u>OC</u>
Int.	<u>OC</u>
Form	<u>OC</u>
Trade	<u>OC</u>

STATE OF New York }  
COUNTY OF New York } SS.

The foregoing instrument was acknowledged before me on this 4 day of May, 1963 by J. DUNN AND WIFE J. DUNN

My Commission Expires:  
March 30 1966

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ }

The foregoing instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, 1963 by \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_ Corporation, on behalf of said Corporation.

My Commission Expires:  
\_\_\_\_\_

Helen P. Brown  
Notary Public  
Notary Public, State of New York  
No. 31-5477975  
Qualified in New York County  
Commission Expires March 30, 1966

Notary Public



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

IN REPLY REFER TO:

Drawer 1857  
Roswell, New Mexico 88201 7-52

June 24, 1964

744

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your undated plan of development for the remainder of 1964 for the Hasepeche unit area, Eddy County, New Mexico, proposing the deepening of one or both of unit wells Nos. 9 and 5 to test the Pennsylvanian, has been approved on this date. The plan was approved on June 3, 1964, by the Commissioner of Public Lands and on June 4, 1964, by the New Mexico Oil Conservation Commission.

Two approved copies of the plan are enclosed.

Sincerely yours,

(Orig. Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy of plan)  
Artesia (w/cy of plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

RECEIVED

JUN 26 1964

O. C. C.  
ARTESIA, OFFICE

OIL CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

749

June 4, 1964

C  
O  
P  
Y

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: 1964 Plan of Development  
Huapache Unit, Eddy  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the Remainder of 1964 for the Huapache Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are being forwarded to the United States Geological Survey, Roswell, New Mexico.

Very truly yours,

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

ALP/JEK/og

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

JUN 11 1964

June 3, 1964

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Re: Huapache Unit  
Eddy County, New Mexico  
Plan of Development

Attention: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands has approved your Plan of Development for the remainder of the 1964 Calendar Year for the Huapache Unit Area, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

This Plan of Development is approved with the understanding that it is a commitment to deepen either the Atlantic Huapache No. 9 Well to a depth of approximate 6,401', or the Huapache Unit Well No. 5 to a depth of approximate 5700', or a possible deepening of both wells.

Humble Oil & Refining Company  
Attention: Mr. John S. Cron  
June 3, 1964  
- page 2 -

We are handing three copies of the Plan to the Oil Conservation Commission and requesting them to forward two copies to the United States Geological Survey for their consideration.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

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

ESW/mar/v  
cc:

United States Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico

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

May 26, 1964

In re: Plan of Development for  
the remainder of 1964  
Huapacha Unit  
No. 14-08-001-1668  
Eddy County, New Mexico

Commissioner of Public Lands  
Post Office Box 1148  
Santa Fe, New Mexico  
Attention: Mrs. Marion M. Nhea

United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico  
Attention: Mr. John Anderson, Regional  
Oil and Gas Supervisor

Gentlemen:

We are enclosing to each of you five copies of our Application for Approval of Plan of Development for the Remainder of 1964.

Upon the approval of this Application by the Commissioner of Public Lands, we would appreciate the Commissioner forwarding at least four copies to the Oil Conservation Commission for their approval. When the Application is approved by the Regional Supervisor of the United States Geological Survey, we would appreciate receiving one approved copy of our Application, in order that we may notify the State of the U.S.G.S. approval.

If there should be any questions in regard to this Application, please let us know. We wish to thank each of you in advance for your consideration of this application.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

John S. Cron

JSC/nk  
Enclosures  
REGISTERED MAIL

cc: New Mexico Oil Conservation Commission

RECEIVED M 7 59

HUAPACHE UNIT AREA  
EDDY COUNTY, NEW MEXICO

Commissioner of Public Lands  
State of New Mexico  
State Land Office  
Santa Fe, New Mexico

Regional Supervisor  
United States Geological Survey  
Roswell, New Mexico

Director  
New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

APPLICATION FOR APPROVAL OF PLAN OF DEVELOPMENT  
FOR REMAINDER OF CALENDAR YEAR 1964

Comes the undersigned, Humble Oil & Refining Company, and being the Unit Operator designated in the Unit Agreement for the Operation and Development of the Huapache Unit Area, which became effective September 23, 1954, and in compliance with Section 10 of said Unit Agreement submits for approval of the Commissioner of Public Lands, the Regional Supervisor of the United States Geological Survey and the New Mexico Oil Conservation Commission the following plan for the further development and operation of the Huapache Unit Area for the remainder of the calendar year 1964:

1. Since the effective date of the Huapache Unit Agreement ten exploratory wells have been drilled within the Unit Area by the Unit Operator at an expenditure in excess of \$1,900,000.00 which does not include lease acquisition costs or lease rentals. The Huapache No. 10 well was completed on or about May 21, 1963 as a well capable of producing gas in paying quantities from the Pennsylvanian formation with an initial potential of 5.7 MMCF of gas per day. This well is presently shut-in due to the fact that there is no market available for the gas in this area at the present time. As a result of the discovery in said well, a participating area for the Pennsylvanian-Morrow formation was approved consisting of Section 10, Township 23 South, Range 22 East, N.M.P.M.



Production tests which have been made in connection with the discovery well and an analysis of all the information available to Unit Operator do not indicate the presence of a large Pennsylvanian-Morrow gas reservoir which would justify the drilling of additional wells to determine the extent of the reservoir until such time as a market for the gas has been established and sufficient production history has been obtained to further evaluate the reservoir. A well is being drilled at the present time by Shell Oil Company, which is the Wagontire Unit No. 1 located in Section 17, Township 23 South, Range 23 East, and which is located approximately two miles East of the Huapache Unit Area, which may furnish additional information for the purpose of evaluating the present discovery.

2. In March 1964, in a further effort to evaluate the northern portion of the Huapache Unit Area, Humble made a contribution toward Pan American Petroleum Corporation's operation for the deepening of the Texas Crude Oil Company No. 1-32 State well located approximately  $\frac{3}{4}$  of a mile north of the Huapache Unit. This well was deepened to a depth of 7,822 feet with the major objective being the upper Pennsylvanian section; however the section penetrated was relatively impervious and the well was abandoned on April 22, 1964 without having been drilled to a depth sufficient to test the Pennsylvanian-Morrow formation.

3. One of the wells drilled upon the Huapache Unit Area for the purpose of testing the same prior to the discovery well was the Atlantic Huapache No. 9 well located in the  $NW\frac{1}{4}NW\frac{1}{4}$  Section 9, Township 24 South, Range 22 East, which was drilled to a depth sufficient to test the Abo formation, and abandoned as a dry hole at a depth of 4,401 feet. Humble is considering deepening this well to a depth of approximately 6,401 feet for the purpose of testing the upper Pennsylvanian Cisco-Canyon dolomite section which produces to the north in the Indian Hills area, and the lower Pennsylvanian-Morrow section.

4. The Huapache Unit well No. 5 located in the  $SW\frac{1}{4}NE\frac{1}{4}$  Section 14, Township 24 South, Range 22 East, N.M.P.M. is another of the exploratory wells which were drilled prior to the initial discovery, said well having been

drilled to a depth of 3,506 feet. Humble is considering re-entering this well for the purpose of deepening the same to a depth of approximately 5,700 feet to test the porous upper Pennsylvanian carbonate section and the lower Pennsylvanian-Morrow section. The deepening of the Huapache No. 5 will test the Cisco-Canyon dolomite section at a structural position some 250 feet high to the Huapache Unit well No. 4 located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of said Section 14. Samples and electric log analysis of this zone in the No. 4 well indicate that there is approximately 60 feet of net porosity in an overall 200 foot section of dolomite. In the opinion of applicant, the upper Pennsylvanian objective is similar to that found in the productive Indian Hills area and it is hoped that a test of this zone at a higher structural position may prove worthwhile.

5. While applicant's plans for the deepening of wells Nos. 9 and 5, referred to in Paragraphs 3 and 4 respectively, have not been finally formulated, at least one of these wells will be deepened and perhaps both of them during the remainder of the calendar year 1964.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By Bill D. Payne  
Agent and Attorney-In-Fact

APPROVED	
Desc.	
Acres	
Int.	
Form	
Grade	

Approved June 3, 1964  
E. S. [Signature]  
Commissioner of Public Lands

Approved \_\_\_\_\_

United States Geological Survey

Approved June 4, 1964  
NEW MEXICO OIL CONSERVATION COMMISSION  
By A. L. [Signature]  
Secretary-Director

1034 (US) 7 Drawer 1857  
Roswell, New Mexico 88201

January 24, 1964

Humble Oil and Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

We hereby acknowledge receipt of the following ratification and  
joinder to the Huapache unit agreement No. 14-08-001-1663, New  
Mexico:

<u>Joinder to</u>	<u>Date Received</u>	<u>Executed by</u>
Unit agreement and unit operating agreement	1-20-64	Raymond Chorney, et ux, lessee of record and working interest owner of lease NM 0411595

The portion of lease NM 0411595 described as the NW $\frac{1}{4}$  sec. 21, T. 23 S.,  
R. 22 E., N.M.P.M., Eddy County, New Mexico, covered by unit tract  
No. 18, is considered fully committed to the Huapache unit agreement  
as of February 1, 1964.

Copies of the ratification and joinder are being distributed to the  
appropriate Federal offices.

Sincerely yours,

JOHN A. ANDERSON  
Regional Oil & Gas Supervisor

cc:  
Washington (w/cy joinder)  
BLM - Santa Fe (w/cy joinder)  
Artesia (w/cy joinder)  
Com. of Pub. Lands - Santa Fe (ltr. only)  
NMOCC - Santa Fe (ltr. only)  
Accounts

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

749

August 6, 1963

C  
O  
P  
Y

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: Initial Participating Area  
Pennsylvanian Morrow  
Formation - Huapache Unit  
Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Initial Participating Area, Pennsylvanian Morrow Formation for the Huapache Unit Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Six approved copies of the application are returned herewith.

Very truly yours,

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

ALP/JBK/og

cc: Commissioner Public Lands  
Santa Fe, New Mexico

United States Geological Survey - Roswell

100-100000-3-11

July 30, 1963

Humble Oil and Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Re: Huapache Unit, Eddy County,  
New Mexico, Initial Participating  
Area, Pennsylvania Morrow  
Formation

Attention: Mr. John S. Gzon

Gentlemen:

The Commissioner of Public Lands has approved as of July 30, 1963 the Initial Participating Area for the Pennsylvania Morrow Formation, Huapache Unit Area, Eddy County, New Mexico. Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing seven approved copies of this application, also one copy of this Geological Report marked Exhibit "A" to the Oil Conservation Commission for their consideration.

Please advise us as to the date of approval by the other two agencies.

Very truly yours,

E. S. JOHNEY WALKER  
COMMISSIONER OF PUBLIC LANDS

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

ESJW/mar/m  
cc: Oil Conservation Commission  
United States Geological Survey

**HUMBLE OIL & REFINING COMPANY**

SOUTHWEST REGION

P. O. BOX 1597

ROSWELL, NEW MEXICO

July 18, 1963

In re: Application for Approval of  
Initial Participating Area,  
Huapache Unit (14-08-001-1668)  
Eddy County, New Mexico

Commissioner of Public Lands  
Post Office Box 791  
Santa Fe, New Mexico

ATTENTION: Mrs. Marion Rhea

Dear Sir:

In connection with the captioned, we are enclosing herewith nine copies of Application for Approval of Initial Participating Area for the Pennsylvanian Morrow formation, consisting of All of Sec. 10, T-23-S, R-22-E, containing 640 acres, Eddy County, New Mexico, together with two copies of a geological report marked Exhibit "C".

Upon your approval of this application, please forward at least eight copies of said application, together with one copy of the geological report marked Exhibit "C", to the Executive Secretary, New Mexico Oil Conservation Commission, Santa Fe, New Mexico. With a copy of this letter to the Executive Secretary, we are requesting that after his approval, he return seven approved copies to this office for our transmittal to the United States Geological Survey.

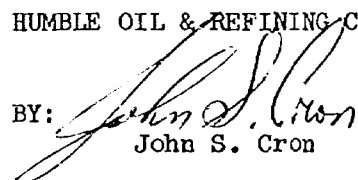
We are forwarding a copy of this application, together with a copy of the geological report to Mr. John Anderson, Regional Oil and Gas Supervisor, United States Geological Survey, Roswell, New Mexico, for his early consideration.

Your early attention to this application would sincerely be appreciated and we wish to thank you in advance for your assistance in securing the Commissioner's approval of said application. If you should have any questions regarding this matter, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

  
John S. Cron

cc: Mr. John Anderson  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico

Executive Secretary  
New Mexico Oil Conservation Commission  
Post Office Box 871  
Santa Fe, New Mexico

Mr. Douglas E. Henriques, Manager  
Bureau of Land Management  
Post Office Box 1251  
Santa Fe, New Mexico

Working Interest Owners  
(See Attached List)

WORKING INTEREST OWNERS

Union Oil Company of California  
Post Office Box 6738  
Roswell, New Mexico

Wm. B. Barnhill  
Post Office Box 1354  
Roswell, New Mexico

The Pure Oil Company  
Post Office Box 671  
Midland, Texas

Monsanto Chemical Company  
602 West Missouri  
Midland, Texas

Barbara Rubenstein  
Post Office Box 582  
Santa Fe, New Mexico

Winston R. Cornell  
Attorney & Counselor at Law  
14321 East Ramona Boulevard  
Baldwin Park, California

Merrill Max Seaton  
1620 Palmeroft Drive, S.W.  
Phoenix, Arizona

Clarence E. Maunton, Geologist  
910 American National Bank Building  
Denver 2, Colorado

Emmett D. White  
Post Office Box 1150  
Roswell, New Mexico

Mrs. Bonnie H. Morrison  
304 North Washington  
Roswell, New Mexico

Arthur H. Spiegel  
P. O. Box 4084, Station "A"  
Albuquerque, New Mexico

Wm. G. Ross and Vee K. Ross  
1408 West Storey  
Midland, Texas

Marilyn Beard  
1300 North Broadway  
Oklahoma City, Oklahoma

A. C. Holder and Ruby F. Holder  
Post Office Box 1476  
Lovington, New Mexico

John B. Connally and Mrs. Idanell Connally  
53 Westover Terrace  
Fort Worth, Texas



Commissioner of Public Lands  
State Land Office  
Santa Fe, New Mexico

Executive Secretary  
New Mexico Oil Conservation Commission  
Post Office Box 871  
Santa Fe, New Mexico

Director  
United States Geological Survey  
Washington 25, D. C.

APPLICATION FOR APPROVAL OF INITIAL PARTICIPATING  
AREA FOR THE PENNSYLVANIAN MORROW FORMATION,  
HUAPACHE UNIT (14-08-001-1668) EDDY COUNTY,  
NEW MEXICO.

Comes the undersigned, Humble Oil & Refining Company, as Unit Operator for the Huapache Unit Agreement approved by the Director of the United States Geological Survey, effective September 23, 1954, and pursuant to the provisions of Section 11 thereof, respectfully submits for the approval of the Commissioner of Public Lands of the State of New Mexico, the New Mexico Oil Conservation Commission, and the Director of the United States Geological Survey, the selection of the following described lands regarded as reasonably proven to be productive of unitized substances in paying quantities to constitute the initial participating area for the Pennsylvanian Morrow producing zone or formation to-wit:

INITIAL PARTICIPATING AREA:

T-23-S, R-22-E

Section 10: All

containing 640 acres, more or less.

JUL 19 1954  
STATE OFFICE  
SANTA FE, N.M.

In support of this application, Operator attaches hereto and hereby makes a part of this application the following:

1. A map marked Exhibit "A" showing thereon the Huapache Unit Area and the proposed initial participating area for the Pennsylvanian Morrow formation.
2. A schedule marked Exhibit "B" showing the lands entitled to participate in the initial participating area in the unitized substances produced from the Pennsylvanian Morrow formation with the percentage of participation of each lease or tract indicated thereon.
3. A geological report marked Exhibit "C" prepared by Mr. C. L. Robinson, Geologist of Applicant, supporting and justifying the proposed selection of the initial participating area, is filed herewith.

The proposed initial participating area is predicated upon the knowledge and information obtained from the completion of the following well capable of producing gas in paying quantities under the terms of the unit agreement, to-wit:

The Huapache No. 10 well, located 1980 feet from the north and west lines of Section 10, T-23-S, R-22-E, which was completed May 21, 1963, as a discovery well capable of producing gas from the Pennsylvanian Morrow formation at a depth from 9930 feet to 9942 feet with an initial potential of 5.7 MMCF gas per day plus 6 BW. This well is now shut in as at this time there is no available market for gas in this area.

Unit Operator respectfully requests the Commissioner of Public Lands, State of New Mexico, Oil Conservation Commission, State of New Mexico, the Director of the United States Geological Survey, approve this schedule of acreage to constitute the initial Pennsylvanian Morrow participating area to be effective as of May 21, 1963, the date of completion of the Huapache Unit No. 10 Well.

Dated this 15th day of July, 1963.

HUMBLE OIL & REFINING COMPANY

By R. B. Breaugh  
Agent And Attorney-in-Fact  
UNIT OPERATOR

APPROVED	
Desc.	SC
Acreage	SC
Int.	SC
Form	SC
Trade	SC

Date Approved July 30, 1963  
E. S. D. Allen  
Commissioner of Public Lands

Date Approved Aug 7, 1963  
A. L. Foster  
Executive Secretary  
New Mexico Oil Conservation Commission

Date Approved \_\_\_\_\_

\_\_\_\_\_  
Director  
United States Geological Survey

RECEIVED  
JUL 11 1963  
U.S. GEOLOGICAL SURVEY  
WASHINGTON, D.C.

C O P Y

September 13, 1963

In re: Huapache Unit  
Eddy County, New Mexico

Mr. John Anderson  
United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico

Dear Sir:

As a result of the completion of the Huapache No. 10 well on May 21, 1963, with an initial potential of 5.7 MCF of gas per day, Humble Oil & Refining Company, as Unit Operator, has filed an application for approval of initial participating area for the Pennsylvanian Morrow formation. The application has been approved by the Commissioner of Public Lands and by the New Mexico Oil Conservation Commission, and it is our understanding that said application has been forwarded by your office to the Director of the United States Geological Survey in Washington for his approval.

The term of the Huapache Unit Agreement is due to expire September 23, 1963; however, we assume that the United States Geological Survey recognizes the Huapache No. 10 well as a well capable of producing unitized substances in paying quantities and that in view of this unit discovery, the term of said Unit Agreement will be extended for so long as unitized substances can be produced in paying quantities, subject, of course, to the terms of the unit agreement. In other words, we assume the unit is now in a producing status and that the oil and gas leases committed to this unit, will remain in effect by virtue of this unit discovery.

If we are wrong in our above assumption regarding the status of this unit, we would appreciate your advising us immediately. Thank you very much.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John B. Cron

JEC/mk

cc: Commissioner of Public Lands  
Attention: Mrs. Marian M. Rhea  
P. O. Box 791  
Santa Fe, New Mexico

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

cc: Mr. Douglas E. Henriques, Manager  
Bureau of Land Management  
P. O. Box 1251  
Santa Fe, New Mexico

C O P Y

August 12, 1963

In re: Application for Approval of  
Initial Participating Area,  
Huapache Unit (14-08-001-1668)  
Eddy County, New Mexico

Mr. John Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico

Dear Sir:

We are enclosing herewith the following:

1. Six copies of Application for Approval of Initial Participating for the Pennsylvania Morrow Formation, Huapache Unit, Eddy County, New Mexico.
2. Two copies of Geologic Report prepared by Mr. C. L. Robinson, Geologist of applicant and being Exhibit "C" to the enclosed application.

Said application was approved by the Commissioner of Public Lands on July 30, 1963 and by the Executive Secretary, New Mexico Oil Conservation Commission on August 7, 1963. With our letter of July 18, 1963 to the Commissioner of Public Lands pertaining to the captioned, we forwarded a copy of the enclosed application together with a copy of the Geological Report to your office for your early consideration.

We would appreciate your early consideration of the enclosed application. Upon the approval of same by the Director of the United States Geological Survey, please furnish this office one fully approved copy of said application. If you should need any additional information regarding this matter, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

REGISTERED MAIL

jsc/rnk

cc: Commissioner of Public Lands  
Attention: Mrs. Marian M. Rhea  
New Mexico Oil Conservation Commission

bcc: Mr. M. L. McMillan  
Mr. James A. Davidson

**HUMBLE OIL & REFINING COMPANY**  
SOUTHWEST REGION  
P. O. BOX 1597  
ROSWELL, NEW MEXICO

July 30, 1963

749

Mr. J. E. Kapteina  
Oil Compact Commission  
P. O. Box 791  
Santa Fe, New Mexico

Dear Mr. Kapteina:

It has come to our attention through Mr. Ben Donegan of Albuquerque, that your file copy of our original geologic report used in the formation of the Huapache Monocline Unit, Eddy County, New Mexico, seems to be missing. Since we have additional copies in our file we are enclosing this extra one to re-establish your file.

Yours very truly,

W. G. McCAMPBELL, Jr.

By:

  
R. D. Holt

RDH/dlm  
Encl.

In Reply: Refer  
to Unit Division

August 14, 1961

**Humble Oil & Refining Company**  
**P. O. Box 1597**  
**Roswell, New Mexico**

**Re: Application for Expansion**  
**of the Tern Huspache Unit,**  
**Eddy County, New Mexico**

**Attention: Mr. Robert J. Walker, Jr.**

**Gentlemen:**

The Commissioner of Public Lands has approved, as of August 11, 1961, your application for an extension of the Term of the Huspache Unit Agreement for a period of two years from September 23, 1961.

We are enclosing the original and two approved copies. Please notify us at such time as this application is approved by the United States Geological Survey.

Very truly yours,

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

**ESW/mmrv**  
**Encl:**  
**cc: USGS, Roswell**  
**OCC, Santa Fe**

C  
O  
P  
Y

September 4, 1959

In reply refer to:  
Unit Division

Humble Oil & Refining Company  
Box 1287  
Roswell, New Mexico

Re: Huapache Unit Agreement  
Eddy County, New Mexico

Attention Mr. R. M. Richardson

Gentlemen:

We are enclosing the original and eight copies of Application for the Extension of the Term of the Huapache Unit Agreement for two years from September 23, 1959 and also Application for an extension of Six Months, from the date of completion of the Number 3 well, in which to commence the fourth Unit test well.

This application under Paragraph seven states that in the event applicant does not commence the fourth test well within one year from September 23, 1959, applicant will file a request for the termination of the Unit Agreement.

The Commissioner of Public Lands has approved the above described application as of September 4, 1959, and again requests that Humble Oil and Refining Company furnish this Office with all the well reports on the Number 3 well and also all reports on any future wells drilled on this Unit.

Very truly yours,  
MURRAY E. MORGAN  
Commissioner of Public Lands

By:  
Ted Bilberry, Supervisor  
Oil and Gas Division

MNR

cc: United States Geological Survey  
Oil Conservation Commission

C  
O  
P  
Y

MAIN OFFICE OCC  
1957 OCT 22 PM 7:15

October 22, 1957

In reply refer to:  
Unit Division

Hervey, Dow & Hinkle  
P. O. Box 547  
Roswell, New Mexico

Re: ~~Huapache~~ Unit Area -  
Eddy County, N. Mex.

Attention: Mr. Clarence E. Hinkle

Gentlemen:

We are enclosing the original and nine copies of Application of Extension from November 16, 1957, to May 16, 1958, in which to start drilling a third test well on the Huapache Unit Area.

This extension was approved by the Commissioner of Public Lands October 21, 1957, subject to like approval by the United States Geological Survey.

Upon approval by the United States Geological Survey, we would appreciate your sending us two copies of this extension.

Very truly yours,

MURRAY E. MORGAN  
Commissioner of Public Lands

By: Ted Bilberry, Supervisor  
Oil and Gas Department

MEM:MNR/m  
Enc.

cc: OCC-Santa Fe



EXHIBIT "B"

PARTICIPATION - INITIAL PARTICIPATING AREA FOR THE PENNSYLVANIAN MORROW FORMATION, HUAPACHE UNIT,  
CONSISTING OF ALL SECTION 10, T-23-S, R-22-E, CONTAINING 640 ACRES, EDDY COUNTY, NEW MEXICO.

JUL 13 1963

Tract No.	Participating Acreage Description	Participating Acreage	Lease Serial No. and Lessee of Record	Participation by Percentages		Area
				Ownership	Percentage by Tract	
8.	T-23-S, R-22-E Sec. 10: E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$	400	LC-066097 Humble Oil & Ref. Co.	U.S.A. Humble Oil & Ref. Co. Burl Steward and Trecle Steward	.125000 .845000 \$750.00 per acre payable out of 3% 1.000000	.078125 .528125 .018750 .625000
20.	T-23-S, R-22-E Sec. 10: W $\frac{1}{2}$ N $\frac{1}{2}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$	240	NM-06478 Humble Oil & Ref. Co.	U.S.A. Humble Oil & Ref. Co. Lucile Parker	.125000 .845000 \$750.00 per acre payable out of 3% 1.000000	.046875 .316875 .011250 .375000

R E C A P I T U L A T I O N

Tract No.	Participating Acreage	Percentage of Participation
8	400	.625000
20	240	.375000
2 tracts	640	1.000000

C

O

P

Y

MAIN OFFICE OCC

September 27, 1963

1963 SEP 28 PM 4 35

Re: Initial Participating Area  
Pennsylvanian Horrow Formation  
Huapache Unit  
Eddy County, New Mexico

Commissioner of Public Lands  
P. O. Box 791  
Santa Fe, New Mexico

Attention: Mrs. Marian H. Ehee  
Supervisor, Unit Division

Dear Sir:

In connection with the above caption, we wish to advise that our application for approval of the Initial Participating Area for the Pennsylvanian Horrow Formation was approved by the Executive Secretary, New Mexico Oil Conservation Commission on August 7, 1963, and by the Acting Director of the United States Geological Survey on September 18, 1963, effective as of May 21, 1963. Attached hereto is a copy of the second page of said application showing the approval of all three governmental agencies.

If you should have any questions regarding this matter or if we may be of further assistance, please let us know.

Yours very truly,

HUDEBIL OIL & REFINING COMPANY

By:

John S. Cron

JSC:mm  
Encl.

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

The proposed initial participating area is predicated upon the knowledge and information obtained from the completion of the following well capable of producing gas in paying quantities under the terms of the unit agreement, to-wit:

The Huapache No. 10 well, located 1980 feet from the north and west lines of Section 10, T-23-S, R-22-E, which was completed May 21, 1963, as a discovery well capable of producing gas from the Pennsylvanian Morrow formation at a depth from 9930 feet to 9942 feet with an initial potential of 5.7 MMCF gas per day plus 6 BW. This well is now shut in as at this time there is no available market for gas in this area.

Unit Operator respectfully requests the Commissioner of Public Lands, State of New Mexico, Oil Conservation Commission, State of New Mexico, the Director of the United States Geological Survey, approve this schedule of acreage to constitute the initial Pennsylvanian Morrow participating area to be effective as of May 21, 1963, the date of completion of the Huapache Unit No. 10 Well.

Dated this 15th day of July, 1963.

HUMBLE OIL & REFINING COMPANY

By [Signature]  
Agent And Attorney-in-Fact  
UNIT OPERATOR

APPROVED	
Desc.	HC
Acreage	HC
Int.	HC
Form	HC
Trade	HC

Date Approved July 30, 1963  
[Signature]  
Commissioner of Public Lands

Date Approved Aug 7, 1963  
[Signature]  
Executive Secretary  
New Mexico Oil Conservation Commission

Date Approved SEP 18 1963  
[Signature]  
Acting Director  
United States Geological Survey

MAIN OFFICE OCC  
1963 SEP 28 PM 4:35

RECEIVED  
SEP 23 1963  
U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

MAIN OFFICE OCC

Drawer 1857  
1963 SEP 27 AM 8: Roswell, New Mexico 88201

September 24, 1963

Humble Oil & Refining Company  
P. O. Box 1597  
Roswell, New Mexico

Attention: John S. Cron

Gentlemen:

Your application of July 15, 1963, for the initial Pennsylvanian  
Morrow participating area, Hualapai unit agreement, No. 14-08-  
001-1668, New Mexico, was approved on September 18, 1963, by  
the Acting Director, Geological Survey, effective as of May 21,  
1963.

Enclosed are <sup>five</sup> copies of the approved application. It is  
assumed that you will furnish all interested parties with  
appropriate evidence of the approval.

Sincerely yours,

(Orig. Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil & Gas Supervisor

cc:  
Washington (ltr. only)  
Artesia (w/cy appd. appln.)  
BLM - Santa Fe (w/cy appd. appln.)  
NMOCC - Santa Fe (ltr. only)  
Com. Pub. Lands - Santa Fe (ltr. only)  
Accounts