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

**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 R. Bn Coutts

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

Date OCT 2 1954

# HUAPACHE NO. 10 GAS ANALYSIS REPORT

Sp. Grav. 0.588 BTU 1015/cu.ft.

Sweet Gas

| MOL % | | GPM | |
|---|---|---|---|
| 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° | |

| Date | BHP | Shut in Time | Remarks |
|---|---|---|---|
| 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)

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 )
) SS.
COUNTY OF Natrona )

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

Notary Public

STATE OF )
)
COUNTY OF )

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:

Notary Public

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

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

HUMBLE OIL & REFINING COMPANY

DATE 1-13-64

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

| APPROVED | |
|---|---|
| Desc. | |
| Acreage | |
| Int. | |
| Form | |
| Trade | |

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 herewith 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.

APPROVED
Desc.
Acreage
Int.
Form
Trade

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 1-13-64 Bill R. Payne

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

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

Joan Chorney
Joan Chorney, Spouse

STATE OF _____ )
) SS.
COUNTY OF _____ )

The foregoing instrument was acknolwedged before me on this _____ day of _____, 1963 by _____, _____ of _____, a _____ Corporation, on behalf of said Corporation.

My Commission Expires:

_____
Notary Public

STATE OF Wyoming )
) SS.
COUNTY OF Natrona )

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

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.

Lynn V. Waggoner
(Lynn V. Waggoner)

Richard W. Waggoner
(Richard W. Waggoner)

STATE OF ARIZONA )
) SS.
COUNTY OF Maricopa )

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

My Commission Expires:

My Commission Expires Aug. 16, 1966

N. June Tilpin
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:

_____

_____
Notary Public

APPROVED
Desc. JC
Acreage JC
Int. JC
Form JC
Trade JC

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

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

DATE 10-29-63

HUMBLE OIL & REFINING COMPANY

BY A. McCarty

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 herewith 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.

(Lynn V. Waggoner)

(Richard W. Waggoner)

STATE OF _____ )
) SS.
COUNTY OF _____ )

The foregoing instrument was acknolwedged before me on this _____ day of _____, 1963 by _____, _____ of _____, a _____ Corporation, on behalf of said Corporation.

My Commission Expires:

_____

Notary Public

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. R. McCarty

AGENT AND ATTORNEY-IN-FACT

DATE 10-29-63

APPROVED

| | |
|---|---|
| Desc. | |
| Acreage | |
| Int. | |
| Form | |
| Trade | |

STATE OF ARIZONA )
) SS.
COUNTY OF Maricopa )

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

My Commission Expires:

My Commission Expires Aug. 13, 1966

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 herewith 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.

John H. Trigg

Pauline V. Trigg

STATE OF _____ )
) SS.
COUNTY OF _____ )

The foregoing instrument was acknolwedged before me on this _____ day of _____, 1963 by _____, of _____, a _____ Corporation, on behalf of said Corporation.

My Commission Expires:

_____
Notary Public

| APPROVED | |
|---|---|
| Desc. | |
| Acreage | |
| Int. | |
| Form | |
| Trade | |

1963 OCT 28 AM 8 ... MAIN OFFICE OCC

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 10-23-63

BY R. McCarty

STATE OF NEW MEXICO )
) SS.
COUNTY OF CHAVES )

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

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 )
) SS.
COUNTY OF CHAVES )

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:

_____
Notary Public

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. Bmccarty

APPROVED
Desc. —
Acreage —
Int. —
Form
Trade

1963 OCT 28 AM 8 31
MAIN OFFICE OCC

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.

TRADE O.K.

By

| APPROVED | |
|---|---|
| Desc. | |
| Acreage | |
| Int. | |
| Form | |
| Trade | |

ATTEST:

Assistant Secretary

HUMBLE OIL & REFINING COMPANY

By

Vice President

STATE OF _____ )
) SS.
COUNTY OF _____ )

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 herewith 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.

TRADE O.K.
By

| APPROVED | |
|---|---|
| Desc. | |
| Acreage | |
| Int. | |
| Form | |
| Trade | |

ATTEST:

Assistant Secretary

HUMBLE OIL & REFINING COMPANY

By

Vice President

STATE OF TEXAS
COUNTY OF HARRIS } SS.

The foregoing instrument was acknolwedged 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

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

WINSTON R. CORNELL

STATE OF CALIFORNIA )
) SS.
COUNTY OF LOS ANGELES )

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

Nadine R. L. Hill
Notary Public

My Commission Expires:

My Commission Expires February 15, 1965

Form Approved
By

STATE OF _____ )
) SS.
COUNTY OF _____ )

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

HUMBLE OIL & REFINING COMPANY

DATE 1-24-63

BY R. Pincoffs

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 herewith 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
WINSTON R. CORNELL

STATE OF _____ )
) SS.
COUNTY OF _____ )

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 )
) SS.
COUNTY OF LOS ANGELES )

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

My Commission Expires:

Notary Public

ACCEPT[illegible]
THI[illegible]
APPRO[illegible]
MIDDLE OIL & REFINING COMPANY
DATE_____
BY_____

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WASHINGTON, D. C.



APPLICATION FOR EXTENSION OF TIME WITHIN WHICH TO COMPLY WITH THE DRILLING REQUIREMENTS OF THE UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE HUAPACHE UNIT AREA, EDDY COUNTY, NEW MEXICO



Director,
United States Geological Survey
Washington, D. C.

Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Comes the undersigned, the Humble Oil & Refining Company, the Unit Operator designated in the Unit Agreement for the Development and Operation of the Huapache Unit Area, Eddy County, New Mexico, and hereby makes application for an extension of time of one year within which to commence operations on a second test well upon some part of the unit area in accordance with Section 9 of said Unit Agreement, and in support of such application respectfully shows:

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 Huapache Oil Unit No. 1 located 1856.05' from the north line and 262.4' from the west line of Section 35, T. 23 S., R. 22 E., N.M.P.M., Eddy 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 large reverse or thrust fault which was encountered at approximately 10,200'. The well passed through a normal sedimentary section for the area with the Ordovician Ellenburger dolomite being encountered at 9800'. At 10,200' a second Pennsylvanian section was encountered and at 10,480' a second Mississippian section was penetrated and at 10,820' and 11,550', respectively, a second section of the Hunton and Montoya sections were penetrated. The Ordovician Ellenburger dolomite was again penetrated at 11,930'. Pre-Cambrian

grano-diorite was reached at 12,617'. From the information obtained and the source beds penetrated, it is believed that if a proper trap can be located, there is a good possibility of the discovery of sizable oil and gas reserves within the unit area.

2. Since the completion of said well, applicant has continued its geologic survey of the area which is still in progress. Four shallow core holes have been drilled east of the unit area since the completion of the well and a reflection seismograph survey was begun in July of this year. This survey 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 Huapache 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 21 thereof is to remain 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 Director of the United States Geological Survey and the Commissioner of Public Lands may modify the drilling requirements of this section by granting reasonable extensions of time.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By R. W. Bybee

**CERTIFICATE OF APPROVAL BY
COMMISSIONER OF PUBLIC LANDS OF THE
STATE OF NEW MEXICO**

The time within which to commence further drilling operations under the Huapache Unit Agreement is hereby extended to November 11, 1956.

DATED this the 3rd day of November, 1955.

E S Walker
Commissioner of Public Lands

**CERTIFICATE OF APPROVAL BY
DIRECTOR UNITED STATES GEOLOGICAL
SURVEY**

The time within which to commence further drilling operations under the Huapache Unit Agreement is hereby extended to November 11, 1956.

DATED this the 23rd day of November, 1955.

Thomas B. Nolan
Acting Director, United States Geological Survey

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 committment is limited to royalty interests only.

Thomas Connell attorney in fact

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

Thomas Connell — Emily K Connell
Murray Ward — Virginia D. Ward
Estate of Henry G. Reed — Margaret Young Reed
Margaret Young Reed Executrix
Estate of Lilla Lovell Hill — Carey G. Hill
by Carey G. Hill Exr

STATE OF CALIFORNIA )
)SS
COUNTY OF LOS ANGELES )

On this the 3rd day of September, 1954, before me personally appeared Thomas Connell, Emily K. Connell, Murray Ward, Virginia D. 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 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:
Sept. 2, 1958

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 EMBRACING 38,658 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 15th 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 16th 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 referred 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 contained in said unit agreement, this approval shall not be considered as waiving or relinquishing in any manner any right, duties or obligations which are now, or may hereafter, be vested in the New Mexico Oil Conservation Commission by law relative to the supervision 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 1,2,5,6,7,8,9,10,11,12, 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

Situated in Eddy County, New Mexico, containing 38,658 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 Huapache Unit 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 such agreement or counterpart thereof, or by ratifying the same. The unit operator shall file with the Commission within 30 days an original of any such counterpart 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 ipso facto upon the termination of said unit agreement. The last unit operator shall immediately notify the Commissioner in writing of such termination.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

E L Mechem
Chairman

Ed Walker
Member

William B. Macey
Secretary

SEAL

IN REPLY REFER TO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C. APR 1 1954

**Air Mail**

Humble Oil & Refining Company
Post Office Box 1287
Roswell, New Mexico

Gentlemen:

Reference is to your application received by the Oil and Gas Supervisor, Roswell, New Mexico, September 17, 1953, requesting designation of 38,658 acres, more or less, in Eddy County, New Mexico, as logically subject to exploration and development under the unitization provisions of the Mineral Leasing Act, as amended. Your Roswell, New Mexico, representative, Mr. Clarence Hinkle, requested deferment of the designation until further notice. On March 26, Mr. Hinkle informed us that designation was now desired and left a form of unit agreement for review and preliminary approval.

Pursuant to regulations of December 22, 1950, 30 C. F. R., section 226.3, the following land is designated as a logical unit area, to be known as the Huapache unit area:

New Mexico Principal Meridian, New Mexico

| T. 23 S., R. 22 E. | Acres |
|---|---|
| sec. 1, (all) | 640.00 |
| sec. 2, (all) | 640.00 |
| sec. 3, (all) | 640.00 |
| sec. 4, (all) | 640.00 |
| sec. 5, (all) | 640.00 |
| sec. 6, lots 1,2,3,4, E½, E½W½ (all) | 570.20 |
| sec. 8, (all) | 640.00 |
| sec. 9, (all) | 640.00 |
| sec. 10, (all) | 640.00 |
| sec. 11, (all) | 640.00 |
| sec. 12, (all) | 640.00 |
| sec. 13, lots 1,2,3,4, N½, N½S½ (all) | 613.04 |
| sec. 14, lots 1,2,3,4, N½, N½S½ (all) | 624.32 |
| sec. 15, lots 1,2,3,4, N½, N½S½ (all) | 634.96 |
| sec. 16, (all) | 640.00 |
| sec. 17, (all) | 640.00 |
| sec. 21, lots 1,2,3,4, W½, W½E½ (all) | 637.68 |

| | |
|---|---|
| sec. 22, (all) | 640.00 |
| sec. 23, (all) | 640.00 |
| sec. 24, (all) | 640.00 |
| sec. 25, (all) | 640.00 |
| sec. 26, (all) | 640.00 |
| sec. 27, (all) | 640.00 |
| sec. 28, lots 1,2,3,4, W½, W½E½ (all) | 640.04 |
| sec. 33, lots 1,2,5,6,7,8,9,10,11,12, 13,14,15,16,17, W½NE¼, NE¼NW¼, W½NW¼ (all) | 644.39 |
| sec. 34, lots 1,2,3,4,5,6,7, E½, NW¼, E½SW¼ (all) | 635.57 |
| sec. 35, (all) | 640.00 |
| sec. 36, (all) | 640.00 |

T. 24 S., R. 22 E.

| | |
|---|---|
| sec. 1, lots 1,2,3,4,5,6,7, SW¼, W½SE¼, SW¼NE¼, S½NW¼ (all) | 598.93 |
| sec. 2, lots 1,2,3,4, S½N½, S½ (all) | 642.20 |
| sec. 3, lots 1,2,3,5, S½N½, S½ (all) | 642.59 |
| sec. 4, lots 1,2,3,4, S½N½, S½ (all) | 642.80 |
| sec. 9, NE¼ | 160.00 |
| sec. 10, (all) | 640.00 |
| sec. 11, (all) | 640.00 |
| sec. 12, lots 1,2,3,4, W½E½, W½ (all) | 605.65 |
| sec. 13, lots 1,2,3,4, W½E½, W½ (all) | 609.50 |
| sec. 14, (all) | 640.00 |
| sec. 15, NE¼ | 160.00 |
| sec. 23, E½ | 320.00 |
| sec. 24, lots 1,2,3,4, W½E½, W½ (all) | 617.21 |
| sec. 25, lots 1,2,3,4, W½E½, W½ (all) | 631.96 |
| sec. 36, lots 1,2,3,4, W½E½, W½ (all) | 640.80 |

T. 23 S., R. 23 E.

| | |
|---|---|
| sec. 19, lots 3,4, E½SW¼ | 166.16 |
| sec. 30, lots 1,2,3,4, E½W½ | 329.56 |
| sec. 31, lots 1,2,3,4,5, E½NW¼, NE¼SW¼ | 348.81 |

T. 24 S., R. 23 E.

| | |
|---|---|
| sec. 5, lots 1,2,3,4, S½N½, S½ (all) | 640.40 |
| sec. 6, lots 1,2,3,4,5,6,7, SE¼, E½SW¼, SE¼NW¼, S½NE¼ (all) | 643.20 |
| sec. 7, lots 1,2,5,6,7, E½, E½NW¼, SE¼SW¼ (all) | 635.61 |
| sec. 8, (all) | 640.00 |
| sec. 16, (all) | 640.00 |
| sec. 17, (all) | 640.00 |
| sec. 18, lots 1,2,5,6,7,8,9,10,11,12, NE¼, E½NW¼ (all) | 621.59 |

| | |
|---|---|
| sec. 19, lots 1,2,3,4, E½, E½W½ (all) | 640.04 |
| sec. 20, (all) | 640.00 |
| sec. 21, (all) | 640.00 |
| sec. 22, W½ | 320.00 |
| sec. 27, (all) | 640.00 |
| sec. 28, (all) | 640.00 |
| sec. 29, (all) | 640.00 |
| sec. 30, lots 1,2,3,4, E½W½, E½ (all) | 638.64 |
| sec. 31, lots 1,2,3,4, E½W½, E½ (all) | 641.68 |
| sec. 32, (all) | 640.00 |
| sec. 33, (all) | 640.00 |
| sec. 34, (all) | 640.00 |
| | 38,657.59 |

Any unit agreement submitted for the area described above should conform with section 226.12 of the above-cited regulations and provide for a test well drilled to the basement complex or to a depth of 11,000 feet.

The text of the unit 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 units and are considered acceptable. Certain other modifications deemed desirable are indicated in red pencil and by attached rider. One copy so marked 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 marked form will be approved if submitted in approvable 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 of sufficient lands to afford effective control of unit operations. When the executed agreement is transmitted to the Supervisor for approval, include the latest status of all Federal acreage showing the current record owner of all issued leases and the current status of all lease applications, if any.

Very truly yours,

Thomas B. Nolan

Acting Director

Enclosure

RECEIVED

JUL 22 0 57 AM '68

STATE LAND OFFICE
SANTA FE, N.M.

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

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

The undersigned Secretary-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 2 9 1968

Effective JUL 2 3 1968

Regional Oil and Gas Supervisor
U. S. GEOLOGICAL SURVEY