

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.

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.

JUL 19 1958
ST. LOUIS, MO.
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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.	<u>[Signature]</u>
Acreage	<u>[Signature]</u>
Int.	<u>[Signature]</u>
Forin	<u>[Signature]</u>
Trade	<u>[Signature]</u>

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 _____

 Director
 United States Geological Survey

Jul 11 1963
 11:30 A.M.
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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

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 33,658 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 33,658 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)
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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.

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 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 oper-
 ated 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 14th day of June, 1954.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By

George B. Haldron