

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

Richard P. De Smet  
Richard P. De Smet  
Thelma F. De Smet  
Thelma F. De Smet

HUMBLE OIL & REFINING COMPANY

DATE 6/22/65 BY J. S. Bottler, Jr.  
AGENT AND ATTORNEY-IN-FACT

STATE OF CALIFORNIA }  
COUNTY OF SACRAMENTO }  
SS.

The foregoing instrument was acknowledged before me on this 9  
day of June, 1963 by Richard P. De Smet and wife, Thelma F. De Smet.  
1965

My Commission Expires:

F. H. [Signature]  
Notary Public

STATE OF Texas }  
COUNTY OF Midland }

The foregoing instrument was acknowledged before me on this 22<sup>nd</sup>  
day of June, 1965, 1963 by J. S. Bottler, Jr.,  
AGENT AND ATTORNEY-IN-FACT of Humble Oil & Refining Company, a  
Delaware Corporation, on behalf of said Corporation.

My Commission Expires:  
My Commission Expires  
June 1, 1968

Sheila A. DeVooy  
Notary Public  
SHEILA A. DeVOY - Notary Public  
Midland County, Texas



March 26, 1965

In re: Huisache Unit  
USA Lease #4 0556076 - Estelle Parker  
320 acres, Sec. 07, 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 Huisache Unit Agreement and Consent and Ratification of Huisache 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 Huisache 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:tl

Incls.

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. Marian Rhea  
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  
\_\_\_\_\_

*K. H. Parker*  
\_\_\_\_\_  
*Estelle Parker*  
\_\_\_\_\_

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

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

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

HUMBLE OIL & REFINING COMPANY  
DATE 3-25-65

The foregoing instrument was acknowledged before me on this  
\_\_\_\_\_ day of \_\_\_\_\_, 1965 by *K. H. Parker*  
of \_\_\_\_\_  
a \_\_\_\_\_ Corporation, on behalf of said Corporation.

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

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

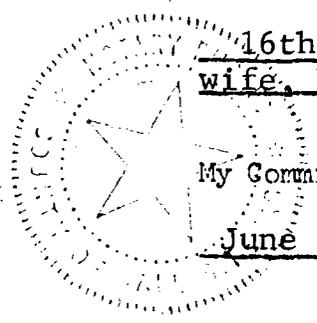
APPROVED	
Pres.	<i>OC</i>
Acctg.	<i>OC</i>
Int.	<i>OC</i>
Form	<i>OC</i>
Trade	<i>OC</i>

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:  
June 1, 1965

*Yarvis W. Reese*  
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.

*Estelle Parker*  
*K.H. Parker*

ACCEPTANCE AND APPROVAL BY UNIT OPERATOR

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

STATE OF TEXAS )  
COUNTY OF DALLAS )

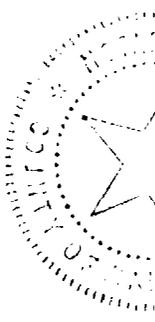
DATE 3-25-65

HUMBLE OIL & REFINING COMPANY  
BY *R. B. 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

*Naomi W. Reese*  
Notary Public



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

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

APPROVE	
Desc.	<i>[Signature]</i>
Acreage	<i>[Signature]</i>
Int.	<i>[Signature]</i>
Form	<i>[Signature]</i>
Trade	<i>[Signature]</i>

May 21, 1965

In re: Huapache Unit  
USA 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 Huapache Unit Agreement and Consent and Ratification of Huapache 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 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 G. 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 N. Enfield  
P. O. Box 807, Roswell, New Mexico



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

June 24, 1964

Marble 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 Huspache 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,

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

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

C  
O  
P  
Y

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/mmr/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  
Huapache Unit  
No. 14-08-001-1668  
Eddy County, New Mexico

Commissioner of Public Lands  
Post Office Box 1143  
Santa Fe, New Mexico  
Attention: Mrs. Marian M. Shea

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/mk  
Enclosures  
REGISTERED MAIL

cc: New Mexico Oil Conservation Commission

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  
BY R. R. McCreath

[Signature]  
[Signature]

APPROVED	
Desc.	<u>[Signature]</u>
Acreage	<u>[Signature]</u>
Irr.	<u>[Signature]</u>
Form	<u>[Signature]</u>
Trade	<u>[Signature]</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:

[Signature]  
Notary Public

STATE OF New York )  
COUNTY OF New York ) SS.

The foregoing instrument was acknowledged before me on this  
4<sup>th</sup> day of May, 1963 by [Signature] AKA  
[Signature]

My Commission Expires:

March 30, 1966

[Signature]  
Notary Public

WILLIAM B. BROWN  
Notary Public, State of New York  
No. 12147, 1963  
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

HUMBLE OIL & REFINING COMPANY

DATE 5-18-65

BY

STATE OF New York )

COUNTY OF New York ) SS.

The foregoing instrument was acknowledged before me on this 14 day of May, 1965 by J. Deems and wife, J. Deems

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:

Notary Public

APPROVED
Desc. <i>[initials]</i>
Acreage <i>[initials]</i>
Int. <i>[initials]</i>
Form <i>[initials]</i>
Trade <i>[initials]</i>

*[Signature]*  
 Notary Public  
 Notary Public for the State of New York  
 No. 01-54782  
 Qualified in New York County  
 Commission Expires March 30 1966

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 *Eric L. Day*  
Agent and Attorney-In-Fact

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

Approved 3, 1964

*E. J. ...*  
Commissioner of Public Lands

Approved \_\_\_\_\_

United States Geological Survey

Approved June 4, 1964

NEW MEXICO OIL CONSERVATION COMMISSION

By *A. J. Carter*  
Secretary-Director