

CERTIFICATE OF TERMINATION  
SOUTHWEST JAL UNIT

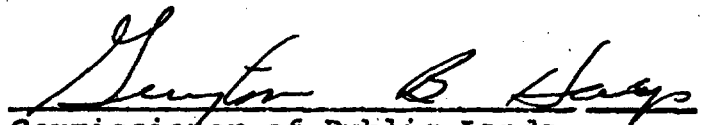
LEA COUNTY, NEW MEXICO

There having been presented to the Commissioner of Public Lands of the State of New Mexico, an application for termination of the Unit Agreement for the development and operation of the SOUTHWEST JAL Unit Area, LEA County, New Mexico. The SOUTHWEST JAL Unit Agreement is dated December 16, 1963, and was approved by the Commissioner of Public Lands as of February 19, 1964.

The application for termination has been executed by the working interests that were committed to the SOUTHWEST JAL Unit Agreement, and such constitute in the aggregate seventy-five (75%) percent, or more, on an acreage basis of the working interests so committed and that provision is made for the termination of the Unit Agreement under Section 20 thereof by the owners of such a percentage of the working interests so committed to the SOUTHWEST JAL Unit Agreement.

NOW, THEREFORE, I do approve the termination of the SOUTHWEST JAL Unit Agreement, the termination to be effective as of April 1, 1966.

IN WITNESS WHEREOF, this Certificate of Approval of Termination is executed, with seal affixed, this 7th. day of March, 1966.

  
Commissioner of Public Lands  
of the State of New Mexico



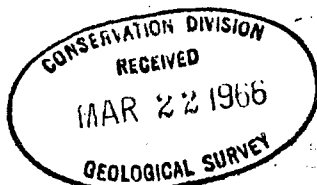
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SANTA FE, N.M.

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MAR 4 1966

U. S. GEOLOGICAL SURVEY  
DUSTY NEW MEXICO



Termination of Unit Agreement for  
the Development and Operation of  
the Southwest Jal Unit Area,  
County of Lea, State of New Mexico,  
and Application for Approval Thereof

No. 14-08-0001-8592

The Unit Agreement for the Development and Operation of the Southwest Jal Unit Area dated December 16, 1963, was approved on April 6, 1964, by the Acting Director of the United States Geological Survey and on February 19, 1964, by the Commissioner of Public Lands, State of New Mexico.

Whereas, the undersigned parties are the owners of more than seventy-five (75) per centum on an acreage basis of the working interests in the Southwest Jal Unit Area in Lea County, New Mexico; and

Whereas, under the terms of Section 20 of the said Unit Agreement, the Agreement may be terminated at any time by not less than seventy-five (75) per centum, on an acreage basis, of the owners of working interests signatory thereto, with the approval of the Director of the United States Geological Survey and of the Commissioner of Public Lands, State of New Mexico.

Now, therefore, the working interest owners of the Southwest Jal Unit Area agree to terminate the Unit Agreement for the Development and Operation of the Southwest Jal Unit Area and do hereby request the approval of the termination of said Unit Agreement by the Director of the United States Geological Survey and by the Commissioner of Public Lands, State of New Mexico.

This instrument may be executed in counterparts, no one of which needs to 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 Approved APR 4 1966

Effective as of April 1, 1966

Attest:



William B. Baker  
Acting Director, U. S. Geological Survey

Sinclair Oil & Gas Company-Operator

[Signature]  
Assistant Secretary

Dated: 8-66

By: [Signature]

R. M. Kobdich  
Vice President

APPROVE	
SUBSTANCE	<u>GM</u>
FORM	<u>RW</u>
	<u>Kate</u>

Attest:

Humble Oil & Refining Company

Dated: \_\_\_\_\_

By: \_\_\_\_\_

Attest:

Cities Service Oil Company

Dated: \_\_\_\_\_

By: \_\_\_\_\_

Termination of Unit Agreement for  
the Development and Operation of  
the Southwest Jal Unit Area,  
County of Lea, State of New Mexico,  
and Application for Approval Thereof

No. 14-08-0001-8592

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This instrument may be executed in counterparts, no one of which needs to 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.

Attest:

Sinclair Oil & Gas Company-Operator

Assistant Secretary

By:

R. M. Kobdich  
Vice President

Dated:

Attest:

Humble Oil & Refining Company

Dated: February 17, 1966

By:

Bill R. Payne  
Bill R. Payne  
Agent And Attorney-in-Fact

Attest:

Cities Service Oil Company

Dated:

By:

APPROVED	
Desc.	OC
Acreage	OC
Int.	OC
Form	OC
Trade	OC

Termination of Unit Agreement for  
the Development and Operation of  
the Southwest Jal Unit Area,  
County of Lea, State of New Mexico,  
and Application for Approval Thereof

No. 14-08-0001-8592

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This instrument may be executed in counterparts, no one of which needs to 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.

Attest:

Sinclair Oil & Gas Company-Operator

\_\_\_\_\_  
Assistant Secretary

Dated: \_\_\_\_\_

By: \_\_\_\_\_

R. M. Kobdich  
Vice President

Attest:

Humble Oil & Refining Company

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

~~Attest:~~

Cities Service Oil Company

\_\_\_\_\_  
Dated: 2-25-66

By: Wiley C. Hill

Wiley C. Hill Attorney-in-Fact

Attest: [Signature]  
Dated: FEB 18 1966  
Attest:

Law	<u>WHL</u>
Serv.	<u>WHL</u>
Exp.	
Prod.	

Gulf Oil Corporation

By: [Signature]  
Attorney In Fact

The Atlantic Refining Company

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest: \_\_\_\_\_

El Paso Natural Gas Company

By: [Signature]

Dated: \_\_\_\_\_

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

By: \_\_\_\_\_  
Partner

Dated: \_\_\_\_\_

Attest: \_\_\_\_\_

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest: \_\_\_\_\_

Redfern Development Corporation

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

C.L. Norsworthy, Jr.

Dated: \_\_\_\_\_

Nona B. Norsworthy

Attest:

\_\_\_\_\_  
Dated: \_\_\_\_\_

Attest:

\_\_\_\_\_  
Dated: February 17, 1966

Attest:

\_\_\_\_\_  
Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

Dated: \_\_\_\_\_

Attest:

\_\_\_\_\_  
Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Gulf Oil Corporation

By: \_\_\_\_\_

The Atlantic Refining Company

By: J. I. Smith  
Attorney-In-Fact

El Paso Natural Gas Company

By: \_\_\_\_\_

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

By: \_\_\_\_\_  
Partner

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

By: \_\_\_\_\_

Redfern Development Corporation

By: \_\_\_\_\_

C.L. Norsworthy, Jr.

Nona B. Norsworthy

Attest:

Gulf Oil Corporation

Dated: \_\_\_\_\_

By: \_\_\_\_\_

Attest:

The Atlantic Refining Company

Dated: \_\_\_\_\_

By: \_\_\_\_\_

~~Attest:~~

El Paso Natural Gas Company

Dated: FEB 23 1966

By: *Sam Smith* *edw*

Attorney-in-Fact

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

By: \_\_\_\_\_

Partner

Dated: \_\_\_\_\_

Attest:

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

Redfern Development Corporation

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

C.L. Norsworthy, Jr.

Dated: \_\_\_\_\_

Nona B. Norsworthy

Attest:

Gulf Oil Corporation

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

Attest:

The Atlantic Refining Company

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

Attest:

El Paso Natural Gas Company

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

By: *A.W. Rutter, Jr.*  
Partner

Dated: MAR 3 - 1966

Attest:

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

\_\_\_\_\_

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

Redfern Development Corporation

\_\_\_\_\_

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

C.L. Norsworthy, Jr.

Dated: \_\_\_\_\_

Nona B. Norsworthy



Attest:

\_\_\_\_\_  
Dated: \_\_\_\_\_

Attest:

\_\_\_\_\_  
Dated: \_\_\_\_\_

Attest:

\_\_\_\_\_  
Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

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Dated: \_\_\_\_\_

Attest:

\_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Gulf Oil Corporation

By: \_\_\_\_\_

The Atlantic Refining Company

By: \_\_\_\_\_


El Paso Natural Gas Company

By: \_\_\_\_\_

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

By: \_\_\_\_\_  
Partner

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

By:  JP  
ELDON E. SCOTT  
ATTORNEY-IN-FACT

Redfern Development Corporation

By: \_\_\_\_\_

C.L. Norsworthy, Jr.

Nona B. Norsworthy

Attest:

Gulf Oil Corporation

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

Attest:

The Atlantic Refining Company

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

Attest:

El Paso Natural Gas Company

\_\_\_\_\_  
Dated: \_\_\_\_\_

By: \_\_\_\_\_

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Partner

Attest:

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

\_\_\_\_\_

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Redfern Development Corporation

Attest: \_\_\_\_\_

By: \_\_\_\_\_

Dated: 2-17-66

C.L. Norsworthy, Jr.

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Nona B. Norsworthy

Attest:

Gulf Oil Corporation

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

The Atlantic Refining Company

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

El Paso Natural Gas Company

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Rutter and Wilbanks Brothers,  
a Partnership composed of Jess  
Wilbanks, A.W. Rutter, G.L.  
Wilbanks and A.W. Rutter, Jr.

By: \_\_\_\_\_

Partner

Dated: \_\_\_\_\_

Attest:

Texas Pacific Oil Company,  
a Division of Joseph E. Seagram &  
Sons, Inc.

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Attest:

Redfern Development Corporation

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

  
C.L. Norsworthy, Jr.

  
Nona B. Norsworthy

Dated: 2-17-66

Dated: 2-17-66

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

A.J. Vogel

Mary E. Vogel

A.W. Rutter

Dorothy Tripp Rutter

A.W. Rutter, Jr.

Virginia S. Rutter

G.L. Wilbanks

Gladys V. Wilbanks

Dated: \_\_\_\_\_

A.J. Vogel

Dated: \_\_\_\_\_

Mary E. Vogel

Dated: MAR 3 - 1966

*A.W. Rutter*  
A.W. Rutter

Dated: MAR 3 - 1966

*Dorothy Tripp Rutter*  
Dorothy Tripp Rutter

Dated: MAR 3 - 1966

*A.W. Rutter, Jr.*  
A.W. Rutter, Jr.

Dated: MAR 3 - 1966

*Virginia S. Rutter*  
Virginia S. Rutter

Dated: MAR 3 - 1966

*G.L. Wilbanks*  
G.L. Wilbanks

Dated: MAR 3 - 1966

*Gladys V. Wilbanks*  
Gladys V. Wilbanks

STATE OF TEXAS  
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 8th day

February, 1966, by R. M. Kobdich, Vice President  
of SINCIAIR OIL & GAS COMPANY, a Maine corporation, on behalf of said corporation.

My commission expires

*Geneva L. Turner*  
Geneva L. Turner  
Notary Public in and for Midland  
County, Texas

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_ day

of \_\_\_\_, 196\_\_, by \_\_\_\_, as Attorney-  
in Fact for EL PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of  
said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_ day

of \_\_\_\_, 196\_\_, by \_\_\_\_ as Agent and  
Attorney-in-Fact for Humble Oil & Refining Company, a Delaware corporation, on  
behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_ day of

\_\_\_\_, 196\_\_, by \_\_\_\_ as Attorney-in-Fact  
for CITIES SERVICE OIL COMPANY, a Delaware corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, Vice President  
of SINCLAIR OIL & GAS COMPANY, a Maine corporation, on behalf of said corporation.  
My commission expires  
\_\_\_\_\_

Notary Public in and for Midland  
County, Texas

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, as Attorney-  
in Fact for EL PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of  
said corporation.

My commission expires:  
\_\_\_\_\_

Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF *Texas*  
COUNTY OF *Midland*

The foregoing instrument was acknowledged before me this 17<sup>th</sup> day  
of February, 1966, by Bill R. Payne as Agent and  
Attorney-in-Fact for Humble Oil & Refining Company, a Delaware corporation, on  
behalf of said corporation.

My commission expires:  
  
Jan 1, 1967

Mary Sue Sloan MARY SUE SLOAN

Notary Public in and for

Midland County, Texas

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_ day of  
\_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_ as Attorney-in-Fact  
for CITIES SERVICE OIL COMPANY, a Delaware corporation, on behalf of said corporation.

My commission expires:  
\_\_\_\_\_

Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, Vice President  
of SINCLAIR OIL & GAS COMPANY, a Maine corporation, on behalf of said corporation.  
My commission expires

\_\_\_\_\_  
Notary Public in and for Midland  
County, Texas

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, as Attorney-  
in Fact for EL PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of  
said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for  
\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_ as Agent and  
Attorney-in-Fact for Humble Oil & Refining Company, a Delaware corporation, on  
behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for  
\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF Oklahoma  
COUNTY OF Washington

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of  
February, 1966, by Wiley C. Hill as Attorney-in-Fact  
for CITIES SERVICE OIL COMPANY, a Delaware corporation, on behalf of said corporation.

My commission expires:

My Commission Expires February 9, 1969

Dora M. Weedman  
Notary Public in and for

Washington County, Oklahoma



STATE OF NEW MEXICO

COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 18<sup>th</sup> day of

February, 1966, by E. O. MORTLOCK, as

Attorney-in-Fact for GULF OIL CORPORATION, a Pennsylvania corporation, on behalf of said corporation.

My commission expires:

My Commission Expires August 15, 1966

Joe Marie Cooper

Notary Public in and for

CHAVES County, NEW MEXICO

STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of

\_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, as

Attorney-in-Fact for THE ATLANTIC REFINING COMPANY, a Pennsylvania corporation, on behalf of said corporation.

\_\_\_\_\_  
Notary Public in and for

STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of

\_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, a partner

in the partnership of RUTTER AND WILBANKS BROTHERS, composed of Jess Wilbanks, A. W. Rutter, G.L. Wilbanks and A.W. Rutter, Jr.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, as Attorney-in-Fact for GULF OIL CORPORATION, a Pennsylvania corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF NEW MEXICO  
COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 17th day of

February, 1966, by S. L. Smith, as

Attorney-in-Fact for THE ATLANTIC REFINING COMPANY, a Pennsylvania corporation, on behalf of said corporation.

My Commission Expires:

July 16, 1969

*Lain Edith Young*

Notary Public in and for  
Chaves County, New Mexico

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of

\_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, a partner in the partnership of RUTTER AND WILBANKS BROTHERS, composed of Jess Wilbanks, A. W. Rutter, G.L. Wilbanks and A.W. Rutter, Jr.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

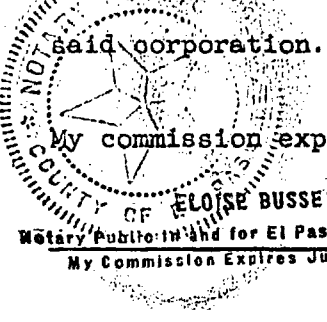
The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, Vice President  
of SINCLAIR OIL & GAS COMPANY, a Maine corporation, on behalf of said corporation.  
My commission expires \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for Midland  
County, Texas

STATE OF TEXAS  
COUNTY OF EL PASO

The foregoing instrument was acknowledged before me this 23<sup>rd</sup> day  
of February, 1966, by Sam Smith, as Attorney-  
in-Fact for EL PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of  
said corporation.

My commission expires:

 ELOISE BUSSE  
Notary Public in and for El Paso County, Texas  
My Commission Expires June 1, 1967.

Eloise Busse  
Notary Public in and for

EL PASO County, TEXAS

STATE OF  
COUNTY OF ~~EL PASO~~

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_ as Agent and  
Attorney-in-Fact for Humble Oil & Refining Company, a Delaware corporation, on  
behalf of said corporation.  
My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of  
\_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_ as Attorney-in-Fact  
for CITIES SERVICE OIL COMPANY, a Delaware corporation, on behalf of said corporation.  
My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

0  
0  
0

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, as Attorney-in-Fact for GULF OIL CORPORATION, a Pennsylvania corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

0  
0  
0

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, as Attorney-in-Fact for THE ATLANTIC REFINING COMPANY, a Pennsylvania corporation, on behalf of said corporation.

\_\_\_\_\_  
Notary Public in and for

STATE OF  
COUNTY OF

*Texas*

*Midland*

0  
0  
0

The foregoing instrument was acknowledged before me this 3rd day of March, 1966, by A. W. Rutter, Jr., a partner in the partnership of RUTTER AND WILBANKS BROTHERS, composed of Jess Wilbanks, A. W. Rutter, G.L. Wilbanks and A.W. Rutter, Jr.

My commission expires:

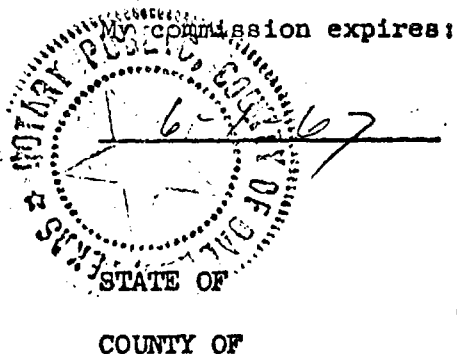
6-1-67

Beverly Ray Leggett  
Notary Public in and for

Midland County, Texas

STATE OF Texas  
COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 21st day of February, 1966, by Eldon E. Scott, Attorney-in-Fact of TEXAS PACIFIC OIL COMPANY, a Division of JOSEPH E. SEAGRAM & SONS, INC., an Indiana corporation, on behalf of said corporation.



Mildarene Worley  
Notary Public in and for  
Dallas County, Texas  
MILDARENE WORLEY, Notary Public,  
in and for Dallas County, Texas.  
My Commission Expires \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, President of REDFERN DEVELOPMENT CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
County of

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by C.L. NORSWORTHY, JR. AND NONA B. NORSWORTHY, his wife.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, Attorney-in-Fact of TEXAS PACIFIC OIL COMPANY, a Division of JOSEPH E. SEAGRAM & SONS, INC., an Indiana corporation, on behalf of said corporation.

My commission expires:

Notary Public in and for

County,

STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this 17<sup>th</sup> day of

February, 1966, by John J. Redfern, Jr., President of REDFERN DEVELOPMENT CORPORATION, a Delaware corporation, on behalf

of said corporation.

My commission expires:

L. KEITHLEY, Notary Public

MIDLAND COUNTY, TEXAS

My Commission Expires June 1, 1967

Notary Public in and for

Midland County, Texas

STATE OF

County Of

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of

\_\_\_\_\_, 196\_\_\_\_, by C.L. NORSWORTHY, JR. AND NONA B. NORSWORTHY, his wife.

My commission expires:

Notary Public in and for

County,

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, Attorney-in-Fact of TEXAS PACIFIC OIL COMPANY, a Division of JOSEPH E. SEAGRAM & SONS, INC., an Indiana corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, by \_\_\_\_\_, President of REDFERN DEVELOPMENT CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County, \_\_\_\_\_

STATE OF

County Of

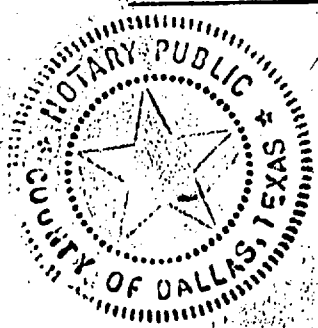
The foregoing instrument was acknowledged before me this 22<sup>nd</sup> day of February, 1966, by C.L. NORSWORTHY, JR. AND NONA B. NORSWORTHY, his wife.

My commission expires:

6-1-67

Let Fress  
Notary Public in and for

Hidalgo County, Pecos



STATE OF Texas  
COUNTY OF Midland

The foregoing instrument was acknowledged before me this 17<sup>th</sup> day  
of February, 1966, by A.J. VOGEL and MARY E. VOGEL, his wife.

My commission expires:

June 1, 1967

Norman L. Green

Notary Public in and for

Midland County Texas

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by A.W. RUTTER, JR., and VIRGINIA S. RUTTER,  
his wife.

My commission expires:

\_\_\_\_\_

Notary Public in and for

\_\_\_\_\_ County \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by A.W. RUTTER and DOROTHY TRIPP RUTTER, his  
wife.

My commission expires:

\_\_\_\_\_

Notary Public in and for

\_\_\_\_\_ County, \_\_\_\_\_

STATE OF  
COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of  
\_\_\_\_\_, 196\_\_\_\_, by G.L. WILBANKS and GLADYS V. WILBANKS, his wife.

My commission expires:

\_\_\_\_\_

Notary Public in and for

\_\_\_\_\_ County, \_\_\_\_\_



STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 196\_\_\_\_, by A.J. VOGEL and MARY E. VOGEL, his wife.

My commission expires:

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_  
County \_\_\_\_\_

STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this 3rd day  
of March, 1966, by A.W. RUTTER, JR., and VIRGINIA S. RUTTER,  
his wife.

My commission expires:

6-27-67

Berleb Ray Leggett  
Notary Public in and for

Midland County Texas

STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this 3rd day  
of March, 1966, by A.W. RUTTER and DOROTHY TRIPP RUTTER, his  
wife.

My commission expires:

6-1-67

Berleb Ray Leggett  
Notary Public in and for

Midland County, Texas

STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this 3RD day of  
MARCH, 1966, by G.L. WILBANKS and GLADYS V. WILBANKS, his wife.

My commission expires:

JUNE 1 - 1967

Bennie L. Estel  
Notary Public in and for

MIDLAND County, TEXAS

I, Mary C. Drayer, Assistant Secretary of The Atlantic Refining Company, hereby certify that the following is a true copy of a Power of Attorney in favor of S. L. Smith of Roswell, New Mexico, executed on February 4, 1965, by The Atlantic Refining Company acting by and through its duly authorized officers, W. Dow Hamm, Vice President, and Mary C. Drayer, Assistant Secretary:

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE ATLANTIC REFINING COMPANY, a corporation duly organized under the laws of the State of Pennsylvania, does hereby make, constitute, and appoint for the States of Arizona, Colorado, New Mexico and Utah, S. L. SMITH, of Roswell, New Mexico, its true and lawful attorney for it and in its name and behalf to execute all statements of interest and of holdings in behalf of The Atlantic Refining Company, and to execute all other statements and instruments, including but not limited to, offers to lease, assignments, operating agreements, and releases, required, or which may be required, by the Bureau of Land Management, United States Geological Survey, and any other agency or bureau of the United States of America in connection with the acts and regulations concerning public domain and acquired lands.

The authority given S. L. SMITH, of Roswell, New Mexico, is specifically limited to the sole and exclusive benefit of The Atlantic Refining Company, and S. L. SMITH has no authority to act in behalf of any other person, firm, or corporation in whole or in part. The Atlantic Refining Company, by this Power of Attorney, agrees to be bound by the representations of its attorney, S. L. SMITH, and hereby waives any and all defenses which may be available to it to contest, negate, or disaffirm the actions of S. L. SMITH.

EXECUTED this 4th day of February, 1965.

ATTEST:

THE ATLANTIC REFINING COMPANY


/s/ Mary C. Drayer  
Mary C. Drayer  
Assistant Secretary

By /s/ W. Dow Hamm  
W. Dow Hamm  
Vice President

I further certify that such Power of Attorney remains in force and effect as of the date of this certification.

WITNESS MY HAND AND SEAL this 17th day of February, 1966.

Mary C. Drayer  
Mary C. Drayer, Assistant Secretary  
of The Atlantic Refining Company,  
a Pennsylvania corporation.



N. Mex Oil Cons Comm.

RECEIVED

APR 11 1966

U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

APR 7 1966

2990

Sinclair Oil and Gas Company  
P. O. Box 1470  
Midland, Texas

Gentlemen:

On April 4, 1966, effective as of April 1, 1966, Arthur A. Baker, Acting Director of the Geological Survey, approved the termination of the Southwest Jal unit agreement, Lea County, New Mexico, No. 14-03-0001-8292, pursuant to the last paragraph of section 20 thereof.

Enclosed is one copy of the approved application for your records. We request that you furnish notice of this approval to each interested working interest owner, lessee, and lessor at their last known address.

Sincerely yours,

H. J. DUNCAN

For the Director

Enclosure

cc: Roswell 2 (w/2 copies of approved application)

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

W I T N E S S E T H:

WHEREAS, a Unit Agreement for the Development and Operation of the Southwest Jal Unit Area, Lea County, New Mexico, was made and entered into as of the 16th day of December, 1963, covering 6,401.20 acres, more or less, of lands described in said Unit Agreement, reference to which is here made for all purposes, and,

WHEREAS, Humble Oil & Refining Company, in committing its lands to said Unit Agreement, restricted the commitment of its lands to only those zones or formations from the surface down to and including the Morrow Formation of Pennsylvanian Age, and,

WHEREAS, representation was made to the Director, United States Geological Survey, in obtaining approval of said Unit Agreement, that if the test well provided for in the Unit Agreement was completed as a discovery, then the unit would be terminated as to all formations below those which Humble Oil & Refining Company committed,

NOW, THEREFORE, for and in consideration of the premises hereof and pursuant to the provisions of said Unit Agreement, the owners of working interest signatories hereto hereby terminate said Unit Agreement insofar and only insofar as the same unitizes formations below the base of the Morrow Formation of Pennsylvanian Age.

This instrument may be executed in counterpart and shall be binding upon the parties executing the same, whether or not the same instrument is executed by all parties.

EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

R. R. Kosovich  
Vice-President

CITIES SERVICE OIL COMPANY

By

Mark F. Payton  
Mark F. Payton, Attorney-in-Fact

Assistant Secretary

Dated: \_\_\_\_\_

Dated: December 30, 1964

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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WHEREAS, representation was made to the Director, United States Geological Survey, in obtaining approval of said Unit Agreement, that if the test well provided for in the Unit Agreement was completed as a discovery, then the unit would be terminated as to all formations below those which Humble Oil & Refining Company committed,

NOW, THEREFORE, for and in consideration of the premises hereof and pursuant to the provisions of said Unit Agreement, the owners of working interest signatories hereto hereby terminate said Unit Agreement insofar and only insofar as the same unitizes formations below the base of the Morrow Formation of Pennsylvanian Age.

This instrument may be executed in counterpart and shall be binding upon the parties executing the same, whether or not the same instrument is executed by all parties.

EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

  
Assistant Secretary

Dated: \_\_\_\_\_

Dated: December 22, 1964

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

By   
Vice-President

THE ATLANTIC REFINING COMPANY

By:   
Attorney-in-Fact

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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This instrument may be executed in counterpart and shall be binding upon the parties executing the same, whether or not the same instrument is executed by all parties.

EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ron Kordich  
Vice-President

[Signature]  
Assistant Secretary

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

[Signature]  
[Signature]  
Geoffrey J. Rutter  
[Signature]  
[Signature]

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

W I T N E S S E T H:

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This instrument may be executed in counterpart and shall be binding upon the parties executing the same, whether or not the same instrument is executed by all parties.

EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ross Kordish  
Vice-President

GULF OIL CORPORATION

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

By

H. M. ...  
Attorney in Fact

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

W I T N E S S E T H:

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This instrument may be executed in counterpart and shall be binding upon the parties executing the same, whether or not the same instrument is executed by all parties.

EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ram. Kordish  
Vice-President

EL PASO NATURAL GAS COMPANY

By

Attorney-in-Fact

Assistant Secretary  
Dated: \_\_\_\_\_

Dated: DEC 23 1964

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_



PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ron. Kordich  
Vice-President

Assistant Secretary

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

JOSEPH E. SEAGRAM & SONS, INC.

BY:

James H. Smith  
ATTORNEY-IN-FACT

APPROVAL	
Local	<u>2/20/65</u>
Land	<u>4/1/65</u>
Geol.	
Prod.	
Accts.	
Exec.	

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ron. Kordish  
Vice-President

[Signature]  
Assistant Secretary

Dated: \_\_\_\_\_

Dated: 12-21-64

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

[Signature]

④

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By Kan. Koblish  
Vice-President

Dated: 15/11/2015

**PIDFERN DEVELOPMENT CORPORATION**

By: John J. Redfern, Jr., President

Secretary

Dated:

Dated:

Dated:

Dated:

Dated:

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Russ. Kordich  
Vice-President

Assistant Secretary

Dated: 1-18-61

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

A. J. Vogel

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

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EXECUTED as of the date first hereinabove written.

ATTEST:

SINCLAIR OIL & GAS COMPANY

By Ron. Kobbich  
Vice-President

Assistant Secretary  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Dated: \_\_\_\_\_

HUMBLE OIL & REFINING COMPANY  
By: C. M. Crothers  
Agent and Attorney in Fact  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPROVED	
Desc.	<input checked="" type="checkbox"/>
Acres	<input checked="" type="checkbox"/>
Int.	<input checked="" type="checkbox"/>
Form	<input checked="" type="checkbox"/>
Trade	<input checked="" type="checkbox"/>

PARTIAL TERMINATION OF UNIT AGREEMENT

THIS AGREEMENT, made and entered into as of the 16th day of November, 1964, by and between SINCLAIR OIL & GAS COMPANY, as Unit Operator and Working Interest Owner, and other Working Interest Owners signatory hereto,

W I T N E S S E T H:

WHEREAS, a Unit Agreement for the Development and Operation of the Southwest Jal Unit Area, Lea County, New Mexico, was made and entered into as of the 16th day of December, 1963, covering 6,401.20 acres, more or less, of lands described in said Unit Agreement, reference to which is here made for all purposes, and,

WHEREAS, Humble Oil & Refining Company, in committing its lands to said Unit Agreement, restricted the commitment of its lands to only those zones or formations from the surface down to and including the Morrow Formation of Pennsylvanian Age, and,

WHEREAS, representation was made to the Director, United States Geological Survey, in obtaining approval of said Unit Agreement, that if the test well provided for in the Unit Agreement was completed as a discovery, then the unit would be terminated as to all formations below those which Humble Oil & Refining Company committed,

NOW, THEREFORE, for and in consideration of the premises hereof and pursuant to the provisions of said Unit Agreement, the owners of working interest signatories hereto hereby terminate said Unit Agreement insofar and only insofar as the same unitizes formations below the base of the Morrow Formation of Pennsylvanian Age.

This instrument may be executed in counterpart and shall be binding upon the parties executing the same, whether or not the same instrument is executed by all parties.

EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By Ron. Kordish  
Vice-President

Assistant Secretary

CITIES SERVICE OIL COMPANY

Dated: \_\_\_\_\_

By Mark F. Payton  
Mark F. Payton, Attorney-in-Fact

Dated: December 30, 1964

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ron. Kordich  
Vice-President

[Signature]  
Assistant Secretary

Dated:

THE ATLANTIC REFINING COMPANY

By:

[Signature]  
Attorney-in-Fact

Dated: 22 1964

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ron. Kossich  
Vice-President

[Signature]  
Assistant Secretary

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: 12/12/64

Dated: 12/12/64

Dated: 12/12/64

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

[Signature]

[Signature]

Knottley, John, Butler

[Signature]

H. D. Wilbanks

Gladys H. Wilbanks



PARTIAL TERMINATION OF UNIT AGREEMENT

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ron. Kordish  
Vice-President

GULF OIL CORPORATION

Assistant Secretary  
Dated:

Dated:

Dated:

Dated:

Dated:

Dated:

Dated:

Dated:

By

A. M. Mott  
Attorney in Fact

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DEC 18 1964

PARTIAL TERMINATION OF UNIT AGREEMENT

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By *Ron. Kordish*  
Vice-President

*[Signature]*  
Assistant Secretary

EL PASO NATURAL GAS COMPANY

Dated: \_\_\_\_\_

By \_\_\_\_\_  
Attorney-in-Fact

Dated: DEC 23 1964

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By Ron. Koblish  
Vice-President

Assistant Secretary

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

JOSEPH E. SEAGRAM & SONS, INC.

BY: James H. Smith  
ATTORNEY-IN-FACT

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ross Kossuth  
Vice-President

Assistant Secretary  
Dated: \_\_\_\_\_

Dated: 12-21-64

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Ram. K. Kish  
Vice-President

Assistant Secretary

Dated: \_\_\_\_\_

~~XXXXXX~~ ATTEST:

~~XXXXXX~~

Secretary

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

REDFERN DEVELOPMENT CORPORATION

By:

John J. Redfern, Jr., President

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By

Don. Korsch  
Vice-President

Assistant Secretary

Dated: \_\_\_\_\_

Dated: 1-18-1965

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

A. Vogel A. S. Vogel  
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EXECUTED as of the date first hereinabove written.

SINCLAIR OIL & GAS COMPANY

ATTEST:

By Rm. Kobovich  
Vice-President

Assistant Secretary  
Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

HUMBLE OIL & REFINING COMPANY

By: C. M. Carothers  
Agent and Attorney in Fact

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\_\_\_\_\_

APPROVED	
Desc.	GC
Acres	GC
Int.	GC
Form	GC
Trade	GC

February 19, 1964

Sinclair Oil & Gas Company  
P. O. Box 1677  
Roswell, New Mexico

Re: Southwest Jal Unit  
Lea County, New Mexico

Attention: Mr. C. R. McClain

Gentlemen:

The Commissioner of Public Lands has approved as of February 19, 1964, the Southwest Jal Unit Agreement, Lea County, New Mexico, subject to like approval by the United States Geological Survey.

We are handing six originally signed Certificates of Approval to Mr. McClain, also Official Receipt No. G-37185 in the amount of Fifty five (\$55.00) Dollars which covers the filing fee.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mmr/v

cc: Oil Conservation Commission  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico



**OIL CONSERVATION COMMISSION**

P. O. BOX 2088  
SANTA FE, NEW MEXICO

2112

May 6, 1965

**Sinclair Oil & Gas Company**  
P. O. Box 1677  
Roswell, New Mexico

**Attention: Mr. J. W. Hodges**

**Re: Extension of Time Request**  
**Southwest Jal Unit, Lea**  
**County, New Mexico**

**Gentlemen:**

This is to advise that the New Mexico Oil Conservation Commission has this date approved the request for an extension of time to October 23, 1964, within which to start drilling a second test well in the Southwest Jal Unit Area, Lea 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 request is returned herewith.

**Very truly yours,**

**A. L. PORTER, Jr.,**  
**Secretary-Director**

**ALP/JEK/eg**

**cc: Commissioner of Public Lands**  
**Santa Fe, N. Mex.**

**United States Geological Survey**  
**Roswell, N. Mex.**

C  
O  
P  
Y



SINCLAIR OIL & GAS COMPANY

P. O. Box 1677  
Roswell, New Mexico

March 12, 1965

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Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico  
Attn.: Mrs. Marian M. Rhea  
Unit Supervisor

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Southwest Jal Unit  
Lea County, New Mexico

Gentlemen:

Enclosed herewith Request for Extension of Time for  
Drilling Second Test, Southwest Jal Unit.

We respectfully request your approval of the enclosed  
and return of one copy showing approval thereon.

Yours very truly,

J. W. Hodges  
District Manager

By: *C. R. McClain*  
C. R. McClain

CRM/mke  
Encls.



SINCLAIR OIL & GAS COMPANY

P. O. Box 1677  
Roswell, New Mexico

March 9, 1965

65 MAR 15 1965

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

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Request for Extension of Time for  
Drilling Second Test  
Southwest Jal Unit  
Lea County, New Mexico  
14-08-0001-8592

Gentlemen:

Reference is made to Section 9 of the Unit Agreement for the Development and Operation of the Southwest Jal Unit Area, Lea County, New Mexico, wherein it is provided that 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.

The initial test well within the Unit Area, located 1980 feet from the north and east lines of Section 4, Township 26 South, Range 36 East, N.M.P.M., was completed October 23, 1964, for an initial potential of 312 MCF of gas plus 51 barrels of condensate per day from Morrow perforations between 13,040 and 13,202 feet after drilling to a total depth of 13,505 feet. The well is presently shut-in.

Due to the marginal completion, the Southwest Jal Unit Well No. 1 is not considered a discovery of unitized substances within the meaning of Section 9 of the Unit Agreement.

Section 9 of the Unit Agreement provides that the Director and State Land Commissioner may modify the drilling requirements of said Section by granting reasonable extensions of time when, in their opinion, such action is warranted.

March 9, 1965

As the initial Unit well was completed as a producing well, although marginal, it is felt that additional geological studies should be made to aid in the selection of possible future well locations. Additionally, further seismic work is planned for the Southwest Jal Area.

Since additional geological studies are to be made, and additional seismic is planned, it is felt that a request for a reasonable extension of time to commence a second Unit test is justified.

Sinclair Oil & Gas Company, as Unit Operator, respectfully requests a six months extension of time to October 23, 1965, to continue operations for development of the Southwest Jal Unit Area.

Yours very truly,

SINCLAIR OIL & GAS COMPANY

By:

*J. W. Hodges*  
J. W. Hodges  
District Manager

JWH:JRL:CRM/mke

Extension to October 23, 1965, approved.

---

Oil and Gas Supervisor  
United States Geological Survey

---

Commissioner of Public Lands  
State of New Mexico

*A. L. Patterson*  
Oil Conservation Commission for  
the State of New Mexico



SINCLAIR OIL & GAS COMPANY

APR 14 1965  
F.O. Box 1470  
Midland, Texas 79701  
April 12, 1965

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 1148  
Santa Fe, New Mexico  
Attention: Mrs. Marian M. Rhea,  
Unit Supervisor

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Southwest Jal Unit  
Lea County, New Mexico

Enclosed herewith for your files and information  
is copy of Request for Extension of Time for Drilling  
Second Test, Southwest Jal Unit, which has been approved  
by the U. S. Geological Survey.

Very truly yours,

J. W. Hodges

By: C. R. McClain

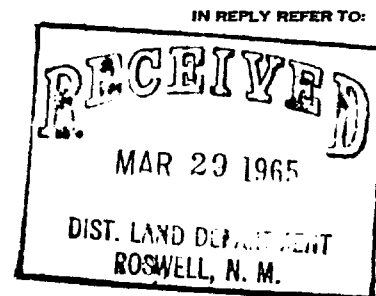
Enc.

cc: Mr. R. W. Knopp

CRM:es



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



MAR 23 1965

Sinclair Oil & Gas Company  
Post Office Box 1677  
Roswell, New Mexico

Gentlemen:

On March 19, 1965, Arthur A. Baker, Acting Director of the Geological Survey, approved your application for a 6-month extension of time to October 23, 1965, within which to commence the second unit test well under the Southwest Jal unit agreement, Lea County, New Mexico, No. 14-08-0001-8592.

Enclosed are four copies of the approved application for your records. We request that you furnish the State of New Mexico, and any other interested principal with whatever evidence of this approval is deemed appropriate.

Sincerely yours,

For the Director

JRL	
CRM	
MIW	
Draftsman	
Scout	
C. A.	
Com. S.	
File	

Enclosures 4

35 APR 14 1965



**SINCLAIR OIL & GAS COMPANY**

P. O. Box 1677  
Roswell, New Mexico

March 9, 1965

**RECEIVED**

MAR 10 1965

U. S. GEOLOGICAL SURVEY  
ROSWELL, 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

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

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Lea County, New Mexico  
No. 14-08-0001-8592

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Reference is made to Section 9 of the Unit Agreement for the Development and Operation of the Southwest Jal Unit Area, Lea County, New Mexico, wherein it is provided that 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.

The initial test well within the Unit Area, located 1980 feet from the north and east lines of Section 4, Township 26 South, Range 36 East, N.M.P.M., was completed October 23, 1964, for an initial potential of 312 MCF of gas plus 51 barrels of condensate per day from Morrow perforations between 13,040 and 13,202 feet after drilling to a total depth of 13,505 feet. The well is presently shut-in.

Due to the marginal completion, the Southwest Jal Unit Well No. 1 is not considered a discovery of unitized substances within the meaning of Section 9 of the Unit Agreement.

Section 9 of the Unit Agreement provides that the Director and State Land Commissioner may modify the drilling requirements of said Section by granting reasonable extensions of time when, in their opinion, such action is warranted.

March 9, 1965

As the initial Unit well was completed as a producing well, although marginal, it is felt that additional geological studies should be made to aid in the selection of possible future well locations. Additionally, further seismic work is planned for the Southwest Jal Area.

Since additional geological studies are to be made, and additional seismic is planned, it is felt that a request for a reasonable extension of time to commence a second Unit test is justified.

Sinclair Oil & Gas Company, as Unit Operator, respectfully requests a six months extension of time to October 23, 1965, to continue operations for development of the Southwest Jal Unit Area.

Yours very truly,

SINCLAIR OIL & GAS COMPANY

Date Approved MAR 19 1965

*William D. Baker*  
Acting Director, U. S. Geological Survey

By: *J. W. Hodges*  
J. W. Hodges  
District Manager

JWH:JRL:CRM/mke

Extension to October 23, 1965, approved.

Oil and Gas Supervisor  
United States Geological Survey

Commissioner of Public Lands  
State of New Mexico

Oil Conservation Commission for  
the State of New Mexico



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April 15, 1965

Sinclair Oil & Gas Company  
P. O. Box 1677  
Roswell, New Mexico

Re: Request for Extension of Time  
Southwest Jal Unit  
Lea County, New Mexico

Attention: Mr. J. W. Hodges

Gentlemen:

The Commissioner of Public Lands approved your Application for a six months extension of time within which to commence the the second test well on the Southwest Jal Unit Area, or to October 23, 1965. Our approval being subject to like approval by the United States Geological Survey such approval having been obtained as of March 19, 1965.

We are returning one approved copy of this Application.

Yours very truly,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mr.) Ted Bilberry, Director  
Oil & Gas Department

GBH/mar/e

cc: United States Geological Survey  
P. O. Drawer 1857  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. [REDACTED] BOX 2080

SANTA FE, NEW MEXICO

October 21, 1965

Sinclair Oil & Gas Company  
P. O. Box 1470  
Midland, Texas

Attention: Mr. J. W. Hodges

Re: Time Extension  
Second Test Well  
Southwest Jal Unit,  
Lea County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the extension of time to March 1, 1966, in which to commence a second unit well in the Southwest Jal Unit Area, Lea 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 request for extension of time is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470  
MIDLAND, TEXAS

PAID  
100 OCT 1965

MIDLAND DIVISION

October 15, 1965

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

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Southwest Jal Unit Area  
Lea County, New Mexico  
14-08-0001-8592

The initial test well drilled within the Southwest Jal Unit Area was completed as a gas well on October 23, 1964, from Morrow perforations between 13,040 feet and 13,202 feet after drilling to a total depth of 13,505 feet. The initial potential was 312 MCF of gas plus 51 barrels of condensate per day.

Due to the No. 1 Southwest Jal Unit well and the Skelly No. 1 West Jal Unit well close to being on stratigraphic strike, Sinclair Oil & Gas Company, as Unit Operator, has instituted a workover program to attempt to increase production from the initial well. The outline for this program is as follows:

1. Set cast iron bridge at approximately 12,835 feet to isolate the present Morrow perforations 13,040 feet to 13,055 feet, 13,160 feet to 13,172 feet and 13,196 feet to 13,202 feet.
2. Perforate  $4\frac{1}{2}$  inch casing at approximately 12,824 feet and cement squeeze.

3. Perforate  $4\frac{1}{2}$  inch casing at 12,726 feet and cement squeeze
4. Drill out cement to top of cement retainer, which would be set at approximately 12,800 feet, and pressure test casing.
5. Perforate the Morrow zone 12,776-12,782 feet and 12,765-12,770 feet with two holes per foot.
6. Test the well and treat perforations with acid as needed.

The above operations were commenced and to date the following has been done:

1. Well was circulated with 12.6# drilling mud,
2. Cast iron bridge plug was set at 12,835 feet.
3. Perforated  $4\frac{1}{2}$  inch casing at 12,726 feet and cement retainer was set at 12,700 feet, and was unable to pump into perforations at 12,726 feet with 7000# surface pressure.
4. The cement retainer at 12,700 feet was drilled out and a retrievable packer was run on the drill pipe and 250 gallons of mud acid was spotted over the perforations at 12,726 feet and was still unable to pump into the perforations with 7000# surface pressure.
5. Perforated Morrow zone 12,775-12,783 feet with 16-3/8 inch holes.

The foregoing is the status of the workover as of this date. The other Morrow zone, 12,765-12,770 feet will be perforated and both intervals will be tested together.

It is realized that this program does not constitute a second unit well, and it is not intended therefor. However, the work is being undertaken as an earnest effort to re-complete the No. 1 test as a well capable

Commissioner of Public Lands et al  
October 15, 1965  
Page 3

of production unitized substances in paying quantities within the meaning of Section 9 of the Unit Agreement.

Inasmuch as the commencement date for the second test in the Southwest Jal Unit Area is October 23, 1965, or the unit is subject to termination for failure to drill said test, an extension to March 1, 1966 is respectfully requested to allow time to complete the workover and evaluate the results thereof. If the operations result in a discovery in commercial quantities, a plan of development and operation will be filed for the ensuing six months period. If commercial production is not established, on or before March 1, 1966 a second unit well will be commenced or a request for voluntary termination of the unit will be submitted.

The Unit Area as now established comprises 5561.2 acres of Federal lands under leases expiring from 1966 to 1972. 160 acres of State lands are committed under lease expiring 1968, and 200 acres of fee lands under leases expiring 1966.

In accordance with Section 9 of the Unit Agreement which provides for reasonable extensions of time to fulfill drilling requirements when, in the opinion of the Director and the State Land Commissioner, such action is warranted, Sinclair Oil & Gas Company, as Unit Operator, respectfully requests an extension of time to March 1, 1966 to continue operations for development of the Southwest Jal Unit Area.

J. W. Hodges

*J. W. Hodges*

Extension to March 1, 1966, approved:

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Oil and Gas Supervisor  
United States Geological Survey

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Commissioner of Public Lands  
State of New Mexico

*[Signature]*  
Oil Conservation Commission for the  
State of New Mexico

10/21/65

277  
June 8, 1965

Sinclair Oil and Gas Company  
P. O. Box 1470  
Midland, Texas

Attention: Mr. C. R. McClain

Gentlemen:

Re: Partial Termination of Unit  
Agreement  
Southwest Jal Unit  
Lee County, New Mexico

The Commissioner of Public Lands has approved as of June 7, 1965 your application for the Partial Termination of the Southwest Jal Unit Agreement. This terminates insofar and only insofar as the Southwest Jal Unit Agreement unitizes formations below the base of the Morrow Formation of the Pennsylvania Age.

This application has been consented to and approved by 100% of the working interest owners signatory to the Unit Agreement. We have retained the original and one copy of this application and are enclosing one complete copy and one letter, both approved by the Commissioner.

Also enclosed is receipt No. H-18738. This payment was made by Sinclair's check No. 438196 which was transmitted by your Tulsa office and was a duplicate payment. Please refer to copy of our letter dated April 30, 1965.

Please notify us of the United States Geological Survey's action on this application.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:

(Mr.) Ted Bilberry, Director  
Oil and Gas Department

GRN/MMB/s  
ENCLOSURE

Sinclair Oil and Gas Company  
Midland, Texas

June 8, 1965  
Page Two

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

New Mexico Oil Conservation Commission  
P. O. Box 2086  
Santa Fe, New Mexico



# SINCLAIR OIL & GAS COMPANY

P.O. BOX 1470

MIDLAND, TEXAS

MUTUAL 3-2761

April 15, 1965

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico  
Attention: Mrs. Marian M. Rhea  
Unit Supervisor

United States Geological Survey  
P. O. Box 1857  
Roswell New Mexico

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Partial Termination of Unit Agreement  
Southwest Jal Unit Area, Lea County, N.M.

The Southwest Jal Unit Agreement was approved with the Humble Oil & Refining Company joinder restricting the commitment of its lands to only those zones or formations from the surface down to and including the Morrow Formation of Pennsylvanian Age. Said approval was granted on Sinclair's intention and assurance that no attempt would be made to drill a well to depths below that of the Morrow within the unit area and, further, that no well other than the initial test would be drilled without the submittal of an amendment to the unit agreement restricting unitized substances to those formations above the base of the Morrow.

Enclosed herewith is Partial Termination of Unit Agreement executed in counterpart by all working interest owners.

We respectfully request your approval of the enclosed if such approval is necessary. If your approval is not deemed necessary, we kindly ask that this instrument be accepted in compliance with aforementioned conditional approval.

J. W. Hodges

By: *C. R. McClain*  
C. R. McClain

CRMCC/oc  
Encl.





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WASHINGTON, D.C. 20242

APR 7 1966

Sinclair Oil and Gas Company  
P. O. Box 1470  
Midland, Texas

Gentlemen:

On April 4, 1966, effective as of April 1, 1966, Arthur A. Baker, Acting Director of the Geological Survey, approved the termination of the Southwest Jal unit agreement, Lea County, New Mexico, No. 14-08-0001-8592, pursuant to the last paragraph of section 20 thereof.

Enclosed is one copy of the approved application for your records. We request that you furnish notice of this approval to each interested working interest owner, lessee, and lessor at their last known address.

Sincerely yours,

For the Director

Enclosure



SINCLAIR OIL & GAS COMPANY  
P. O. Box 1470  
MIDLAND, TEXAS 79701  
April 27, 1966

2993

WEST TEXAS REGION

New Mexico Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico

OFFICE OCC  
APR 29 AM 8 10

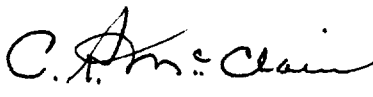
RE: Southwest Jal Unit Area  
Lea County, New Mexico

Gentlemen:

To complete your files on the captioned, we enclose Application for Termination of subject Unit executed by all working interest owners and approved by the Commissioner of Public Lands and the U. S. Geological Survey effective as of April 1, 1966.

Very truly yours,

Jo. R. Lodle

By:   
C. R. McClain

CRM/ah

Enclosure

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

SANTA FE, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243-6691

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
February 19, 1964

EXAMINER HEARING

IN THE MATTER OF:

Application of Sinclair Oil & Gas  
Company for a unit agreement, Lea  
County, New Mexico.

Case No. 2993

BEFORE: ELVIS A. UTZ, EXAMINER

TRANSCRIPT OF HEARING



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
February 19, 1964

EXAMINER HEARING

IN THE MATTER OF:

Application of Sinclair Oil & Gas  
Company for a unit agreement, Lea  
County, New Mexico

Case No. 2993

BEFORE: ELVIS A. UTZ, EXAMINER

TRANSCRIPT OF HEARING

MR. UTZ: Call Case 2993.

MR. DURRETT: Application of Sinclair Oil & Gas for a unit  
agreement, Lea County, New Mexico.

MR. WHITE: If the examiner please, Charles White of Gilbert,

DEARNLEY, MEIER, WILKINS and CROWNOVER

General Court Reporting Service

Suite 1120 Simms Building

Albuquerque, New Mexico

Phone 243-6691



White & Gilbert, Santa Fe, appearing on behalf of the applicant.  
We have two witnesses to be sworn.

(Witnesses sworn)

MR. UTZ: Are there other appearances in this case?

C. R. McCLAIN,

called as a witness herein, first having been duly sworn on oath,  
was examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q Would you state your full name for the record, please?

A C. R. McClain.

Q By whom are you employed and in what capacity?

A By Sinclair Oil and Gas Company, Land Man.

MR. UTZ: How do you spell McClain, M-c-C-l-a-i-n?

A M-c-C-l-a-i-n.

MR. UTZ: Thank you.

Q (By Mr. White) Are you familiar with Sinclair's  
proposed unit agreement?

A I am.

Q Do you have a plat showing the unit?

A Yes, sir, I have. Exhibit One is a plat showing the  
unit area comprised of 6400 acres, described as all of Sections 31,  
32 and 33, Township 25 South, Range 36 East, West Half of Section



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3, all of Sections 4, 5, 6, 7, 8, 9 and the west half of Section 10, 26 South, Range 36 East, Lea County, New Mexico.

Q What else does the exhibit show?

A The exhibit shows various tract numbers. It shows the acreage owned by the federal government, by the state of New Mexico and the fee acreage. It shows the lease ownership, the lessees of record in the unit area. It shows our proposed location as being 1980 from the north and east lines of Section 4.

Q Now, would you refer to EXHIBIT 2?

A EXHIBIT 2 shows the unit area outlined, indicates the offset leasehold owners.

Q Now do you have a schedule showing the ownership of the mineral interest underlying these lands?

A Yes, Sir. That is EXHIBIT 3. It is Schedule B to the Unit Agreement.

Q All right. Thank you.

MR. WHITE: If the Examiner please, that is attached to the Unit Agreement.

MR. UTZ: What page do you say it was?

A EXHIBIT B to the Unit Agreement. Right on the end of the proposed Unit Agreement. It is a schedule. This exhibit shows the tracts, the description of the tracts, acreage in the tracts, the lessee of record, the royalty owner, and the working interest owners, their respective interests in each tract.



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Q (By Mr. White) What percent of the working interest owners have agreed to come within the unit?

A At this time we have signed commitments from  $87\frac{1}{2}$  percent of working interest owners.

Q And what percent do you have of the overriding royalty interests?

A Approximately 50 percent of the royalty interest owners have signed at this time. We expect full commitment.

Q In other words, you anticipate a hundred percent?

A We anticipate 100 percent.

Q Now, your Unit Agreement is EXHIBIT No. 4?

A EXHIBIT 4 is a Unit Agreement. Yes, Sir.

Q Is that the suggested basic unit agreement as approved by the USGS?

A That is the form prescribed by the USGS and has been tentatively approved by the regional office of the USGS, has been approved as to form and content by the Commissioner of Public Lands.

Q Briefly state what the objects of the Unit Agreement are.

A We propose to drill a test well to test the Morrow Formation, or to a depth of 13,500 feet. The agreement provides the first test to be commenced on or about April 30, 1964. It provides that all formations expected to be encountered will be



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unitized.

Q Who will be the unit operator?

A Sinclair Oil and Gas Company will be unit operator.

Q Has the Commissioner of Public Lands of New Mexico approved this?

A To form and content, the Commissioner of Public Lands has approved it.

Q Will you furnish a confirmed copy of the Unit Agreement when it is fully executed?

A We will.

Q Does that complete your testimony?

A That completes my testimony.

Q Were these exhibits prepared by you or under your direction?

A They were.

Q Thank you.

MR. WHITE: At this time we offer EXHIBITS 1 through 4 in evidence.

MR. UTZ: Without objection, EXHIBITS 1 through 4 will be entered into the record of this case. Are there questions of the witness? The witness man be excused. Are there statements to be made in this case?

MR. WHITE: We have one other witness, if the Examiner please.





DALE K. RITTENHOUSE

Called as a witness herein, having been first duly sworn on oath,  
was examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q Would you state your name.

A Dale K. Rittenhouse.

Q By whom are you employed, and in what capacity?

A Sinclair Oil and Gas Company, Roswell District,  
District Exploration Geologist.

Q Would you briefly state your educational and professional background?

A I received a BA degree in geology from the University of Colorado, June 1957. For the past six and a half years I have been engaged in exploration activity in the Permian Basin.

Q Are you familiar with the subject Unit Agreement?

A I am.

Q What geological studies, if any, have you made in this area?

A I have made regional exploration studies within the general area and supervised the detail exploration and construction of the exhibits presented today.

Q Have you done any seismic work?



A Yes, Sir. We have.

Q Will you refer to and explain EXHIBIT 5, please?

A EXHIBIT 5 is a seismic structure map contoured on top of the Phantom Strawn horizon, using 100 foot contour intervals. The explanation of the structure indicated is a minor closure, northeast of the proposed unit outline, and a southwest structural terrace or nose. Extending southwestward from the minor structure the Skelly No. 1 West Jal Unit, located in Section 20, 25-36, has completed water free from the Strawn limestone, 200 feet lower structurally than the east flanking sinclinal feature of this minor structure. Therefore, this indicates the trapping factor in this area to be stratigraphic.

Q Is there any Morrow production in the unit?

A There is no production within the unit boundary.

Q Where is the closest production?

A The closest production is in the Bell Lake Field, located northwest of the unit boundary.

Q Is this structure underlying the entire unit, in your opinion?

A Yes, Sir, it is. The broad structural terrace underlies the unit outline.

Q Now, will you refer to and explain EXHIBIT No. 7?

A We might explain this.

Q What is this line running from the northwest direction?



A The heavy wavy line extending across the east margin of the unit area indicates the limit of the reservoir, quality Strawn character nature. This is controlled by the Skelly No. 1 West Jal, Section 20, 25-36, and the Skelly No. 1-A, West Jal, Section 21, 25-36. This line is extended southerly paralleling a monoclinial feature on the margin. The central basin platform is indicated on the plat by a light dashed line.

Q Now, will you explain Exhibit Seven, please?

A Exhibit Six?

Q Six, rather.

A Exhibit Six is an Isopach map, Isopaching the Strawn to the Devonian interval, using Isopach interval of 100 feet. Exhibit Six indicates the presence of a lower Pennsylvanian dipocenter in the proposed unit area, which will result in a favorable Strawn bioclastic carbonate development.

Q Are Exhibits Five and Six tied to any subsurface control?

A Exhibits Five and Six are tied to all of the available subsurface control in the area.

Q Does that complete your testimony on Exhibit Number Six?

A Yes, sir.

Q Now, will you refer to Exhibit Seve, please?

A Exhibit Seven is a three well stratigraphic cross section, crossing an east-west line directly north of the proposed unit area. The three control wells are the Sun No. 1, Harper-Federal,



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Section 26, Township 25 South, Range 35 East; Skelly Number One West Jal Unit, Section 20, 25 South, 36 East; and Humble's Number One Bates, Section 29, Township 25 South, Range 37 East.

Q What does that exhibit indicate to you?

A This stratigraphic cross section with a datum plane being the base of the Permian, indicates the presence of a lower Pennsylvanian dipocenter, and the presence of bioclastic carbonate in the Strawn limestone to a basin section in the Sun Number One Harper and termination of this bioclastic reservoir to the east by pre-Permian truncation..

Q What is your primary objective?

A The primary objection in the unit area will be the Strawn bioclastic limestone. The nearest production from this formation is found in the Skelly Number One West Jal, located one and a half miles North of the North boundary of the proposed unit. This wildcat discovery potentialled calculated open flow of 310 million cubic feet of gas per day.

Q Should the first well prove productive, would it be reasonable to assume that the entire unit would be likewise productive in the Strawn formation?

A Yes.

Q In your opinion, would the granting of this application be in the interest of conservation and then toward the prevention of waste?

A Yes, sir, it would.



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MR. WHITE: That concludes our testimony.

MR. UTZ: Are there questions of the witness?

MR. WHITE: Were these exhibits prepared by you or under your direction?

A Yes, sir, these exhibits were prepared under my direction.

MR. WHITE: At this time, we move for the admission of Exhibits Five through Seven.

MR. UTZ: Have the exhibits been marked officially up there? Without objection, Exhibit Five through Seven will be entered into the record of this case.

Are there questions of the witness? The witness may be excused. Are there statements in this case? The case will be taken under advisement.

\* \* \* \*



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STATE OF NEW MEXICO

COUNTY OF BERNALILLO

I, ROY D. WILKINS, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill, and ability.

WITNESS my Hand and Seal of Office, this 29th day of February, 1964.

*Roy D. Wilkins*

MY COMMISSION EXPIRES:

NOTARY PUBLIC

September 6, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2883, heard by me on Feb. 19, 1964.

*Thurman H. [Signature]* Examiner  
New Mexico Oil Conservation Commission

