

*Case 3049*

**ATWOOD & MALONE**  
LAWYERS

JEFF D. ATWOOD (1883-1960)  
ROSS L. MALONE  
CHARLES F. MALONE  
RUSSELL D. MANN  
PAUL A. COOTER  
BOB F. TURNER  
ROBERT A. JOHNSON

P. O. DRAWER 700  
TELEPHONE 505 622-6221  
SECURITY NATIONAL BANK BUILDING  
ROSWELL, NEW MEXICO  
88201

May 1, 1964

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

Attention: Mr. A. L. Porter, Jr.

Dear Mr. Porter:

On behalf of Sohio Petroleum Company, we enclose herewith its Application for approval of the Littman San Andres Unit and for the secondary recovery program therefrom. Attached to the Application are three exhibits, the same being the index map, the log of the proposed injection well No. 1 Sims and the diagrammatic sketches of the proposed injection wells. In addition thereto, we enclose a copy of the Unit Agreement, a list of all working interest, royalty, overriding royalty and production payment owners, a copy of the Geological Survey Director's letter dated August 13, 1963, and the Commissioner's of Public Lands letter dated March 19, 1963.

It is our understanding that this Application may be placed on the next examiner's docket which will be May 27, 1964.

If additional information is desired, please advise us.

Appreciating your courtesy to us in this matter, we are,

Very truly yours,

ATWOOD & MALONE

BY: 

PC/mm  
Encl.

CC: Mr. Frank Irby, State Engineer  
State of New Mexico  
Santa Fe, New Mexico

Mr. C. L. Ware, Staff Landman  
Sohio Oil Company

RECEIVED  
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BEFORE THE OIL CONSERVATION COMMISSION JANUARY 4 AM 8:30

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION )
OF SOHIO PETROLEUM COMPANY FOR )
APPROVAL OF THE UNIT AGREEMENT )
FOR THE DEVELOPMENT AND OPERATION )
OF THE LITTMAN SAN ANDRES UNIT IN )
TOWNSHIP 21 SOUTH, RANGE 38 EAST, )
N.M.P.M., LEA COUNTY, NEW MEXICO )
(and Andrews County, Texas) AND FOR ORI- )
GINAL AUTHORITY FOR THE INJECTION OF )
WATER THEREIN FOR THE SECONDARY RE- )
COVERY THEREFROM AND THE PRESSURE )
MAINTENANCE THEREOF. )

NO. 3049

APPLICATION

Sohio Petroleum Company hereby applies for approval of the Unit Agreement for the development and operation of the Littman San Andres Unit which includes 1941.38 acres of land, more or less, in Lea County, New Mexico, and Andrews County, Texas, and more fully described as follows:

Lea County, New Mexico

Township 21 South, Range 38 East

- Section 8: SE 1/4
Section 9: SW 1/4
Section 16: NW 1/4
Section 17: NE 1/4

Andrews County, Texas

Block A-29, PSL

- Section 5: East 40 acres of South 71.25 acres of SW 1/4, S 1/2 SE 1/4 and West 40 acres of North 71.25 acres of SE 1/4

Section 6:	N $\frac{1}{2}$ and S $\frac{1}{2}$
Section 7:	SW $\frac{1}{4}$
Section 14:	NW $\frac{1}{4}$
Section 15:	NE $\frac{1}{4}$

Designation of the Littman San Andres Unit as heretofore described has been approved by the United States Geological Survey and the form of the Unit Agreement has been approved by the Commissioner of Public Lands of the State of New Mexico. The Unit area includes 490.69 acres, more or less, of Federal land and 170.69 acres of State of New Mexico land.

The Federal and State of New Mexico lands comprise all of the unit area within the State of New Mexico. The unit area also includes 1280 acres of fee land, situate in Andrews County, Texas. The Federal land so included is described as follows:

Lea County, New Mexico

Township 21 South, Range 38 East

Section 8:	SE $\frac{1}{4}$
Section 9:	SW $\frac{1}{4}$
Section 17:	NE $\frac{1}{4}$

The State of New Mexico land so included is described as follows:

Lea County, New Mexico

Township 21 South, Range 38 East

Section 16:	NW $\frac{1}{4}$
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The Unit Agreement has been executed by 100 % of the working interest owners and by more than 75% of the royalty, overriding royalty and production payment owners. A list of all interested parties known to applicant is attached hereto.

In addition to the approval of the Unit Agreement, applicant also requests original authority for the injection of water into the unit formation for the secondary recovery therefrom and the pressure maintenance thereof, and, in support thereof, attaches hereto as Exhibits:

- Exhibit "1": Index map of the Littman San Andres Unit within Lea County, New Mexico and Andrews County, Texas.
- Exhibit "2": Log of proposed injection well No. 1 Sims.
- Exhibit "3": Diagrammatic sketches of the proposed injection wells.

The water injection will be into the San Andres formation at an average depth of 4300 feet. The water source for this program will be the Santa Rosa formation which occurs at an average depth of 1200 feet in the vicinity of the Littman Pool. The injection rate is estimated to be 800 barrels per day per injection well which, under full scale operations, would require a supply of 12000 barrels per day.

A copy of this application is likewise forwarded to the office of the State Engineer, P.O. Box 1079, Santa Fe, New Mexico, marked for the attention of Frank Irby.

Applicant respectfully submits that the creation of the Littman San Andres Unit would be in the best interest of conservation of natural resources and would prevent waste and increase the ultimate recovery of oil from the Littman San Andres field, at the same time protecting the correlative rights of all owners of interest. The agreement provides for the separate handling and accounting of production from the New Mexico portion of the unit area.

WHEREFORE, Applicant respectfully requests that this Application be set for a hearing before a duly appointed examiner of the Commission at the earliest possible date, that notice be given as required by law and the regulations and that the Littman San Andres Unit be approved and authority given for the injection of water therein for the secondary recovery therefrom and the pressure maintenance thereof.

Respectfully submitted,

SOHIO PETROLEUM COMPANY

BY 

of ATWOOD & MALONE, its attorneys  
P.O. Drawer 700  
Roswell, New Mexico

CERTIFICATE OF EFFECTIVENESS

UNIT AGREEMENT  
LITTMAN SAN ANDRES UNIT  
LEA COUNTY, NEW MEXICO - ANDREWS COUNTY, TEXAS

KNOW ALL MEN BY THESE PRESENTS:

THAT:

WHEREAS, an executed counterpart of that certain Agreement entitled "Unit Agreement, Littman San Andres Unit, Lea County, New Mexico, and Andrews County, Texas", dated September 9, 1963, hereinafter referred to as "Unit Agreement", has been duly filed for record in the office of the County Clerk of Lea County, New Mexico, and duly filed for record in the office of the County Clerk of Andrews County, Texas; and

WHEREAS, said Unit Agreement provides for unitization of the subsurface formation commonly known as the "San Andres Formation" and defined in said Unit Agreement as the "Unitized Formation", underlying the lands comprising the Unit Area therein provided for and described as follows:

1. Northeast Quarter (NE $\frac{1}{4}$ ) of Section 17, Township 21 South, Range 38 East, N.M.P.M., Lea County, New Mexico, containing 160.00 acres of land, more or less;
2. Southeast Quarter (SE $\frac{1}{4}$ ) of Section 8, Township 21 South, Range 38 East, N.M.P.M., Lea County, New Mexico, containing 160.00 acres of land, more or less;
3. Southwest Quarter (SW $\frac{1}{4}$ ) of Section 9, Township 21 South, Range 38 East, N.M.P.M., Lea County, New Mexico, containing 170.69 acres of land, more or less;
4. Northwest Quarter (NW $\frac{1}{4}$ ) of Section 16, Township 21 South, Range 38 East, N.M.P.M., Lea County, New Mexico, containing 170.69 acres of land, more or less;
5. Northeast Quarter (NE $\frac{1}{4}$ ) of Section 15, Block A-29, P.S.L., Andrews County, Texas, containing 160.00 acres of land, more or less;
6. South Half (S $\frac{1}{2}$ ) of Section 6, Block A-29, P.S.L., Andrews County, Texas, containing 320.00 acres of land, more or less;
7. North Half (N $\frac{1}{2}$ ) of Section 6, Block A-29, P.S.L., Andrews County, Texas, containing 320.00 acres of land, more or less;
8. Southwest Quarter (SW $\frac{1}{4}$ ) of Section 7, Block A-29, P.S.L., Andrews County, Texas, containing 160.00 acres of land, more or less;
9. East 40 acres of South 71.25 acres of Southwest Quarter (SW $\frac{1}{4}$ ) of Section 5, Block A-29, P.S.L., Andrews County, Texas, containing 40.00 acres of land, more or less;

10. Northwest Quarter (NW $\frac{1}{4}$ ) of Section 14, Block A-29, P.S.L., Andrews County, Texas, containing 160.00 acres of land, more or less;
11. South Half of the Southeast Quarter (S $\frac{1}{2}$  SE $\frac{1}{4}$ ) and West 40 acres of North 71.25 acres of Southeast Quarter (SE $\frac{1}{4}$ ) of Section 5, Block A-29, P.S.L., Andrews County, Texas, containing 120.00 acres of land, more or less;

said lands are described and identified as Tracts 1 through 11 respectively in Exhibit "B" attached to and made part of said Unit Agreement;

and

WHEREAS, the Railroad Commission of the State of Texas at a formal conference held June 10, 1964, approved said Unit Agreement effective as of June 10, 1964; and

WHEREAS, the Oil Conservation Commission of the State of New Mexico in Order No. R-2714, dated June 3, 1964, approved said Unit Agreement; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico in Certificate of Approval dated June 4, 1964, approved said Unit Agreement; and

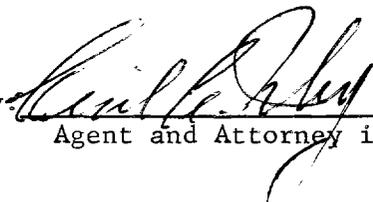
WHEREAS, the Director of the United States Geological Survey in Certificate of Approval - Certification - Determination dated June 12, 1964, approved said Unit Agreement; and

WHEREAS, all of the terms and conditions of said Unit Agreement, as a prerequisite to make the same effective, have been complied with and met.

NOW, THEREFORE, for the consideration set forth in said Unit Agreement, the undersigned, Sohio Petroleum Company, an Ohio Corporation, as Unit Operator under said Unit Agreement, hereby certifies and declares said Unit Agreement will become effective according to its terms and conditions on July 1, 1964, at 7:00 a.m.

IN WITNESS, WHEREOF, this Certificate of Effectiveness has been executed this 18th day of June, 1964.

SOHIO PETROLEUM COMPANY

By:   
Agent and Attorney in Fact



STATE OF OKLAHOMA     )  
                                  )  
COUNTY OF OKLAHOMA    )

BEFORE ME, the undersigned, a Notary Public in and for said County and State, on this day personally appeared CECIL C. IRBY known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said SOHIO PETROLEUM COMPANY, an Ohio Corporation, and that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein stated; and the foregoing instrument was acknowledged before me this day by CECIL C. IRBY, Agent and Attorney in Fact of SOHIO PETROLEUM COMPANY, an Ohio Corporation, on behalf of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 18th day of June, A.D., 1964.



Notary Public in and for Oklahoma County,  
Oklahoma.

My Commission Expires:

September 6, 1965