November 17, 1961

Kersey and Company
Box 305
Artesia, New Mexico

Attn. Mr. Harold Kersey

Dear Mr. Kersey:

Receipt of your letter of November 7, 1961 pertaining to your application which was submitted on October 30, 1961 is gratefully acknowledged. The production test on the wells involved is not a major point of interest to this office and will not change my letter addressed to Mr. Porter under date of November 7, 1961 in any way, which of course means that this office offers no objectinn to the conversion of the subject wells to injection wells.



Very truly yours,

S. E. Reynolds
State Engineer

By:
Frank E. Irby
Chief
Water Rights Division

FEI/ma
cc-Mr. A. L. Porter, Jr.

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**KERSEY & COMPANY**
DRILLING AND OIL PRODUCTION
Phone SH 6-3671 • P. O. Box 305 • 808 W. Grand
ARTESIA, NEW MEXICO

November 6, 1961

Re: Red Lake Premier Sand Unit
Eddy County, New Mexico

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

Attention: J. E. Kapteina

Gentlemen:

In accordance with Commission Rule 701, Kersey & Company request administrative approval to convert the following wells to water injection wells on the above unit:

| Lease & Well Number | Location |
|---|---|
| Delhi State #6 | Unit Letter I, Section 19-17-28 |
| Delhi State #9 | Unit Letter O, Section 19-17-28 |
| Stanolind #1 | Unit Letter J, Section 21-17-28 |
| Welch #16 | Unit Letter F, Section 28-17-28 |

The purpose of these proposed injection wells is to back up wells now showing a response from flooding.

There is no offset production or other operators that will be affected by this expansion and the unit area covers the field.

Following are the methods we will use in putting these wells on injection.

On Delhi State #6, Delhi State #9 and Welch #16, each well will be cleaned out to total depth. A Gamma-Neutron log and Caliper survey ran. A liner will be installed from T.D. up 30' into the 7" casing. Cement will be circulated to top of liner. Each well will then be sand jet perforated in the producing zone, and fractured, and put on injection using a Baker tension packer set on 2 3/8" upset tubing with packer set in the liner.

On Stanolind No. 1 the 4 1/2" casing is cemented to the top of the producing horizon. To put on injection this well will be cleaned out to total depth and 2 3/8" tubing with Baker tension packer set just above the producing horizon in the 4 1/2" casing.

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

A plat of the area is enclosed, and also recent well tests on wells involved that have showed an increase.

We will appreciate your consideration to this request.

Yours very truly,

KERSEY & COMPANY

Harold Kersey

Harold Kersey

HK:cg

CC: State Engineer Office

(Form C-116)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

# GAS-OIL RATIO REPORT

OPERATOR Red Lake Premier Sand Unit
Kersey & Company POOL Red Lake

ADDRESS Box 316, Artesia, New Mexico MONTH OF October, 19 61

SCHEDULED TEST V COMPLETION TEST SPECIAL TEST (Check One)

(See Instructions on Reverse Side)

| Lease | Well No. | Date of Test | Producing Method | Choke Size | Test Hours | Daily Allowable Bbls. | Production During Test | | | GOR Cu. Ft. Per Bbl. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Water Bbls. | Oil Bbls. | Gas MCF | |
| | | ORIGINAL PRODUCTION WHEN WELL WAS DRILLED | | | | | | | | |
| Unit P, Sec. 19-17-28 | | | | | | | | | | |
| Delhi Stephens | 1 | 10/54 | Pump in test tank | | 24 | 2 | 0 | 2 | | |
| | | PRESENT PRODUCTION AFTER WATERFLOOD | | | | | | | | |
| Unit P, Sec. 19-17-28 | | | | | | | | | | |
| Delhi Stephens | 1 | 9/10/ 1961 | Pump in test tank | | 24 | 28 | 1 | 24 | | |

(I certify that the information given is true and complete to the best of my knowledge.)

Date November 6, 1961

Kersey & Company
Company

By

Owner
Title

(Form C-116)
(Revised 7/1/52)

# INSTRUCTIONS

Mail original to Oil Conservation Commission, Santa Fe, New Mexico, and one copy to District Office, Hobbs, New Mexico.

This report shall be mailed to the Commission on or before the 15th of the month following the period in which the well is scheduled to be tested. The ratios, as reported, shall become effective for proration purposes the first of the month following the end of the period in which the test is scheduled to be made. Failure to make the required test and report will be penalized as the Commission's Regulations provide.

Under "producing methods," show flowing, pumping, or gas lift; under "hours," show the duration of the test in hours, which includes all time the well is open for production of oil or gas during the 24-hour test period. The allowable is the daily allowable for the well at the time of test.

METHOD OF TESTING: Produce each well in the normal operating manner and the customary production rate and measure all gas, oil and water produced during 24 hours.

MEASUREMENTS: To be made in accordance with Rule 301. In computing the gas-oil ratio on gas lift wells, input is subtracted from output to obtain net gas volume.

PRESSURE BASE: 15.025 lbs. per sq. in., Specific Gravity .70. Temperature 60° F.

(Form C-116)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

# GAS-OIL RATIO REPORT

OPERATOR Red Lake Premier Sand Unit
Kersey & Company POOL Red Lake

ADDRESS Box 316, Artesia, New Mexico MONTH OF October, 19 61

SCHEDULED TEST V COMPLETION TEST SPECIAL TEST (Check One)

(See Instructions on Reverse Side)

| Lease | Well No. | Date of Test | Producing Method | Choke Size | Test Hours | Daily Allowable Bbls. | Production During Test | | | GOR Cu. Ft. Per Bbl. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Water Bbls. | Oil Bbls. | Gas MCF | |
| | | ORIGINAL PRODUCTION WHEN WELL WAS DRILLED | | | | | | | | |
| Unit E-Sec. 28-18-28 Welch | 15 | 10/54 | Pump in test tank | | 24 | | 0 | 1 | | |
| | | PRESENT PRODUCTION AFTER WATERFLOOD | | | | | | | | |
| Unit E-Sec. 28-17-28 Welch | 15 | 9/10/1961 | Pump in test tank | | 24 | 10 | 1 | 8 | | |

(I certify that the information given is true and complete to the best of my knowledge.)

Date November 6, 1961

Kersey & Company
Company

By

Owner
Title

(Form C-116)
(Revised 7/1/52)

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PRESSURE BASE: 15.025 lbs. per sq. in., Specific Gravity .70. Temperature 60° F.

(Form C-116)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

# GAS-OIL RATIO REPORT

OPERATOR Red Lake Premier Sand Unit
Kersey & Company POOL Red Lake

ADDRESS Box 316, Artesia, New Mexico MONTH OF October, 1961

SCHEDULED TEST V COMPLETION TEST SPECIAL TEST (Check One)

(See Instructions on Reverse Side)

| Lease | Well No. | Date of Test | Producing Method | Choke Size | Test Hours | Daily Allowable Bbls. | Production During Test | | | GOR Cu. Ft. Per Bbl. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Water Bbls. | Oil Bbls. | Gas MCF | |
| ORIGINAL PRODUCTION WHEN WELL WAS DRILLED | | | | | | | | | | |
| Delhi Unit K-Section | 1 21-17-28 | 10/54 | Pump in test tank | | 24 | | 0 | 1/3 | | |
| PRESENT PRODUCTION AFTER WATERFLOOD | | | | | | | | | | |
| Delhi Unit K-Section | 1 21-17-28 | 9/10/61 | Pump in test tank | | 24 | 11 | 1 | 7 | | |

(I certify that the information given is true and complete to the best of my knowledge.)

Date November 6, 1961

Kersey & Company
Company

By

Owner
Title

(Form C-116)
(Revised 7/1/52)

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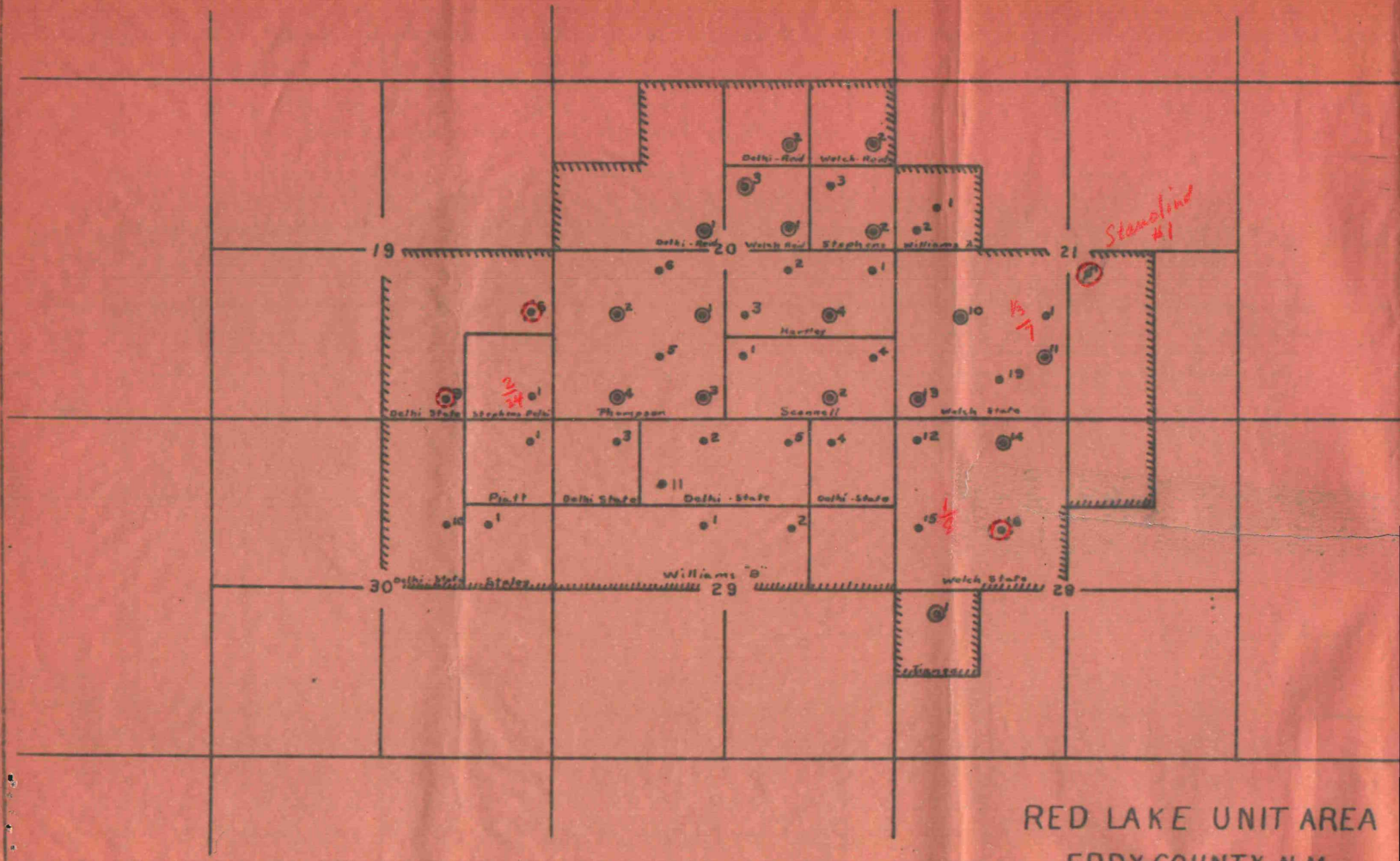
PRESSURE BASE: 15.025 lbs. per sq. in., Specific Gravity .70. Temperature 60° F.




# RED LAKE UNIT AREA

## EDDY COUNTY, N.M.

SCALE 1" = 2000'

12-12-59

10-30-61

# KERSEY & COMPANY

DRILLING AND OIL PRODUCTION

Phone SH 6-3671 • P. O. Box 305 • 808 W. Grand

ARTESIA, NEW MEXICO


November 6, 1961

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

Attention: Mr. J. E. Kapteina

Gentlemen:

Thank you for your letter of November 2, 1961.

In drawing up the request for the additional injection wells we inadvertently showed the tests from the wells we intended to flood rather than those that had a response from the flood.

The attached application for request has been changed to show the wells receiving a response from the flood.

Wells showing a response to the present flood and which the proposed injection wells will back up are Delhi 1, Delhi Stephens 1, and Welch 15. Tests before flooding and present tests are enclosed herewith with this application.

Yours very truly,

KERSEY & COMPANY

Harold Kersey

Harold Kersey

HK:cg

# STATE OF NEW MEXICO

## STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

November 7, 1961

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Kersey and Company under date of October 30, 1961 which seeks administrative approval to convert the following wells to water injection wells:

Delhi State #6, Unit 1, Section 19, T. 17 S., R. 28 E.; Delhi State #9, Unit O, Section 19, T. 17 S., R. 28 E.; Stanolind #1, Unit J, Section 21, T. 17 S., R. 28 E. and Welch #16, Unit F, Section 28, Township 17 S., R. 28 E.

Since injection will be through tubing and packer, it is concluded that a threat of contamination to any fresh waters which may exist in the area is not likely to occur. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds
State Engineer

By: Frank E. Irby
Frank E. Irby
Chief
Water Rights Division

ma
cc-Kersey & Company
F. H. Hennighausen