



# SINCLAIR OIL & GAS COMPANY

P. O. Box 1470  
MIDLAND, TEXAS 79701

October 19, 1966

1966 OCT 21 AM 10 22

WEST TEXAS REGION

*SMD-62*  
*Due Nov 5*

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

Attention: Mr. A. L. Porter, Jr.,  
Secretary and Director

Gentlemen:

Enclosed please find Sinclair Oil & Gas Company's "APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION" along with pertinent attachments for our State Lea 403 Well No. 7 in the Vacuum Field Area, Lea County, New Mexico. Sinclair proposes to recomplete this dry hole so as to inject produced salt water from three (3) nearby leases into the Yates, Queen, San Andres and Delaware formations through subject well.

All Offset Operators within 1/2 mile of the well, the State Engineer and the Surface Lessees, as listed below, have been furnished copies of this Application and letter this date and are hereby requested, if they have no objection, to sign two (2) copies of the letter and return to the undersigned.

Please advise if you desire additional information concerning this matter.

Yours very truly,

*R. E. Powers*  
R. E. Powers,  
Engineering Supervisor

RMA/ar

cc: Union Oil of California  
619 W. Texas  
Midland, Texas 79701

New Mexico State Engineer  
Capitol Building  
Santa Fe, New Mexico

Skelly Oil Company  
P. O. Box 1650  
Tulsa, Oklahoma  
Attn: Mr. George W. Selinger

Scharbauer Cattle Company  
111 So. Loraine  
Midland, Texas 79701

The undersigned has no objection to the salt water disposal Application referred to above.

Company \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

NEW MEXICO OIL CONSERVATION COMMISSION  
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

|  |                      |  |                      |
|--|----------------------|--|----------------------|
| OPERATOR<br><b>SINCLAIR OIL &amp; GAS COMPANY</b>  |                      | ADDRESS<br><b>P. O. Box 1470, Midland, Texas 79701</b> |                      |
| LEASE NAME<br><b>State Lea 403</b>   | WELL NO.<br><b>7</b> | FIELD<br><b>Vacuum Area</b>                            | COUNTY<br><b>Lea</b> |
| LOCATION<br>UNIT LETTER <b>0</b> ; WELL IS LOCATED <b>735</b> FEET FROM THE <b>South</b> LINE AND <b>2055</b> FEET FROM THE <b>East</b> LINE, SECTION <b>16</b> TOWNSHIP <b>18S</b> RANGE <b>35E</b> NMPM. |                      |  |                      |

CASING AND TUBING DATA

| NAME OF STRING | SIZE   | SETTING DEPTH | SACKS CEMENT  | TOP OF CEMENT | TOP DETERMINED BY |
|----------------|--------|---------------|---|---------------|-------------------|
| SURFACE CASING | 13 3/8 | 406           | 410   | Circulated    | Observation       |
| INTERMEDIATE   | 9 5/8  | 3990          | 1750  | Circulated    | Observation       |
| LONG STRING    | None   |               |   |               |                   |
| TUBING         | 3 1/2  | 3950          | NAME, MODEL AND DEPTH OF TUBING PACKER<br><b>Baker Model N-1 @ 3950</b> |               |                   |

|   |                                    |                                     |
|---|------------------------------------|-------------------------------------|
| NAME OF PROPOSED INJECTION FORMATION<br><b>Yates-Queen, San Andres-Delaware</b> | TOP OF FORMATION<br><b>See Log</b> | BOTTOM OF FORMATION<br><b>6782'</b> |
|---|------------------------------------|-------------------------------------|

|   |  |   |
|---|--|---|
| IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?<br><b>Tubing</b> | PERFORATIONS OR OPEN HOLE?<br><b>Open Hole</b> | PROPOSED INTERVAL(S) OF INJECTION<br><b>3990-6600</b> |
|---|--|---|

|   |   |  |
|---|---|--|
| IS THIS A NEW WELL DRILLED FOR DISPOSAL?<br><b>No</b> | IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?<br><b>Devonian Test (Abandoned in Mississippi)</b> | HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?<br><b>No</b> |
|---|---|--|

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH  
**None**

|   |  |   |
|---|--|---|
| DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA<br><b>Ogalalla 350 (approx.)</b> | DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA<br><b>None</b> | DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA<br><b>Bone Spring - 6782'</b> |
|---|--|---|

|   |                        |                        |   |   |   |
|---|------------------------|------------------------|---|---|---|
| ANTICIPATED DAILY INJECTION VOLUME (BBLS.)<br><b>1500</b> | MINIMUM<br><b>1500</b> | MAXIMUM<br><b>2500</b> | OPEN OR CLOSED TYPE SYSTEM<br><b>Closed</b> | IS INJECTION TO BE BY GRAVITY OR PRESSURE?<br><b>Pressure</b> | APPROX. PRESSURE (PSI)<br><b>1500 PSI</b> |
|---|------------------------|------------------------|---|---|---|

|   |                                       |  |   |
|---|---------------------------------------|--|---|
| ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -<br><b>Yes</b> | WATER TO BE DISPOSED OF<br><b>Yes</b> | NATURAL WATER IN DISPOSAL ZONE<br><b>Yes</b> | ARE WATER ANALYSES ATTACHED?<br><b>No</b> |
|---|---------------------------------------|--|---|

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)  
**Scharbauer Cattle Company, 111 South Loraine, Midland, Texas 79701**

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL  
**Union Oil of California, 619 W. Texas, Midland, Texas 79701**

**Skelly Oil Company, P. O. Box 1650, Tulsa, Oklahoma**

|   |                             |   |   |
|---|-----------------------------|---|---|
| HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?<br><b>Yes</b> | SURFACE OWNER<br><b>Yes</b> | EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL<br><b>Yes</b> | THE NEW MEXICO STATE ENGINEER<br><b>Yes</b> |
|---|-----------------------------|---|---|

|   |                            |                              |   |
|---|----------------------------|------------------------------|---|
| ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)<br><b>Yes</b> | PLAT OF AREA<br><b>Yes</b> | ELECTRICAL LOG<br><b>Yes</b> | DIAGRAMMATIC SKETCH OF WELL<br><b>Yes</b> |
|---|----------------------------|------------------------------|---|

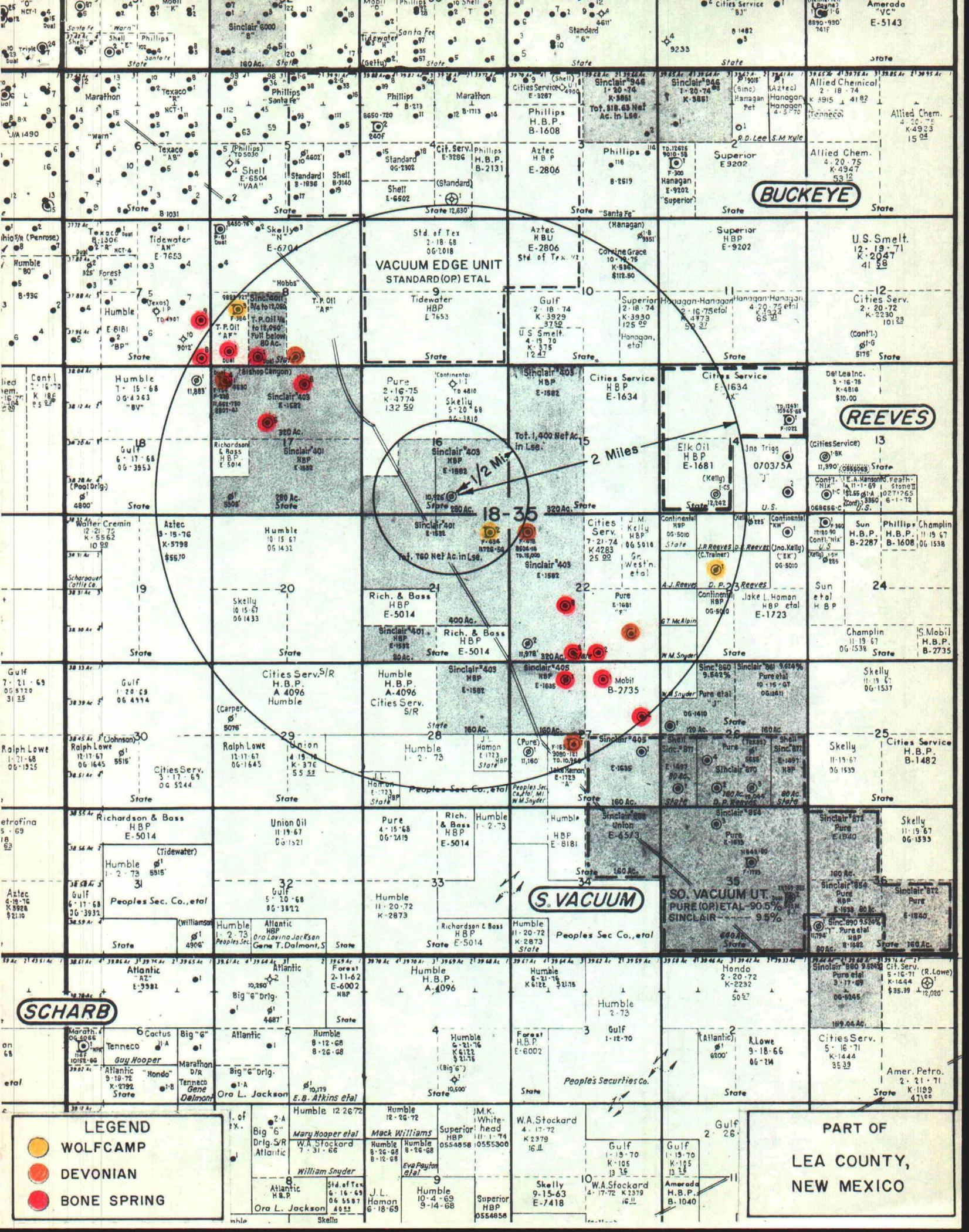
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

*R. E. Powers*  
**R. E. Powers (Signature)**

**Engineering Supervisor**  
**(Title)**

**October 19, 1966**  
**(Date)**

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.



Amerada "VC" E-5143

**BUCKEYE**

**REEVES**

**S. VACUUM**

**SO. VACUUM UT. PURE (OP) ETAL - 90.5% SINCLAIR - 9.5%**

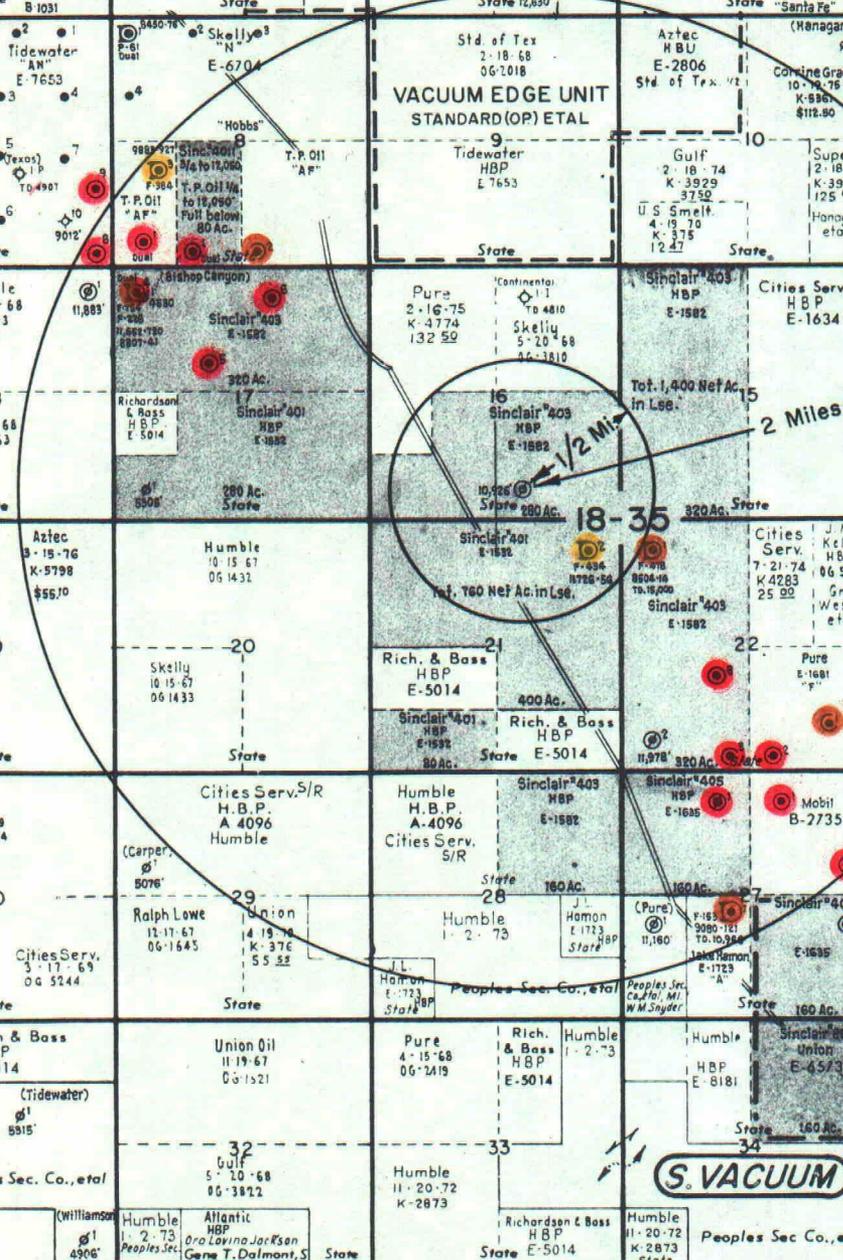
**SCHARB**

**LEGEND**

- WOLFCAMP
- DEVONIAN
- BONE SPRING

**PART OF LEA COUNTY, NEW MEXICO**

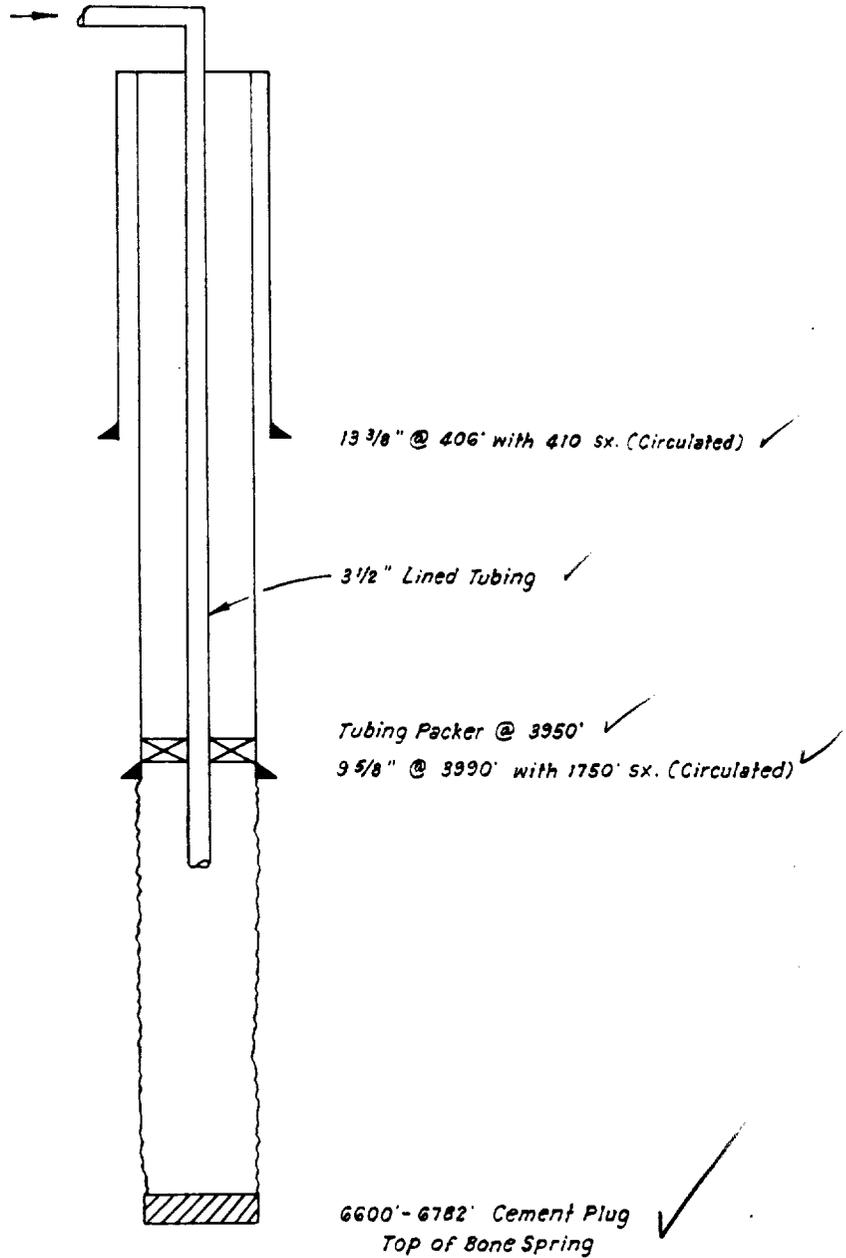
**VACUUM EDGE UNIT STANDARD (OP) ETAL**



Legend symbols: yellow circle for WOLFCAMP, orange circle for DEVONIAN, red circle for BONE SPRING.

Map title: PART OF LEA COUNTY, NEW MEXICO

SINCLAIR OIL & GAS COMPANY  
STATE LEA 403 - WELL NO. 7  
PROPOSED SALTWATER DISPOSAL WELL  
VACUUM AREA  
LEA COUNTY, NEW MEXICO





SINCLAIR OIL & GAS COMPANY

P. O. Box 1470  
MIDLAND, TEXAS 79701

November 9, 1966

WEST TEXAS REGION

File  
SWD-62

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.  
Secretary and Director

Gentlemen:

Our October 19, 1966 letter transmitted an application for salt water disposal in Sinclair's State Lea 403 Well No. 7, Vacuum Pools Area and requested waivers from offset operators and surface lessees.

These waivers have been received and are transmitted to you herewith for your files.

Yours very truly,

R. E. Powers  
Engineering Supervisor

DWC/hl

Enclosures



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470  
MIDLAND, TEXAS 79701

October 19, 1966

WEST TEXAS REGION

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

Attention: Mr. A. L. Porter, Jr.,  
Secretary and Director

Gentlemen:

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All Offset Operators within 1/2 mile of the well, the State Engineer and the Surface Lessees, as listed below, have been furnished copies of this Application and letter this date and are hereby requested, if they have no objection, to sign two (2) copies of the letter and return to the undersigned.

Please advise if you desire additional information concerning this matter.

Yours very truly,

  
R. E. Powers,  
Engineering Supervisor

RMA/ar

cc: Union Oil of California  
619 W. Texas  
Midland, Texas 79701

New Mexico State Engineer  
Capitol Building  
Santa Fe, New Mexico

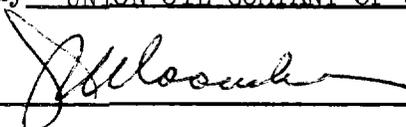
Skelly Oil Company  
P. O. Box 1650  
Tulsa, Oklahoma

Scharbauer Cattle Company  
111 So. Loraine  
Midland, Texas 79701

Attn: Mr. George W. Selinger

The undersigned has no objection to the salt water disposal Application referred to above.

Company UNION OIL COMPANY OF CALIFORNIA

By  \_\_\_\_\_

Date October 31, 1966



# SINCLAIR OIL & GAS COMPANY

P. O. Box 1470  
MIDLAND, TEXAS 79701

October 19, 1966

WEST TEXAS REGION

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

Attention: Mr. A. L. Porter, Jr.,  
Secretary and Director

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R. E. Powers,  
Engineering Supervisor

RMA/ar

cc: Union Oil of California  
619 W. Texas  
Midland, Texas 79701

New Mexico State Engineer  
Capitol Building  
Santa Fe, New Mexico

Skelly Oil Company  
P. O. Box 1650  
Tulsa, Oklahoma  
Attn: Mr. George W. Selinger

Scharbauer Cattle Company  
111 So. Loraine  
Midland, Texas 79701

The undersigned has no objection to the salt water disposal Application referred to above.

Company

*Scharbauer Cattle Company*

By

*Clarence Scharbauer Jr.*

Date

*11/7/66*



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470  
MIDLAND, TEXAS 79701

October 19, 1966

|                  |                                     |
|------------------|-------------------------------------|
| RECEIVED         |                                     |
| OCT 24 1966      |                                     |
| ENGINEERING      |                                     |
| FILE # R 100-100 |                                     |
| REP              | 10-24                               |
| EHVY             |                                     |
| EGA              |                                     |
| RMA              | <input checked="" type="checkbox"/> |
| JSM              |                                     |
| DWC              |                                     |
| WHL              |                                     |
| CTB              |                                     |
| STC              |                                     |

WEST TEXAS REGION

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

Attention: Mr. A. L. Porter, Jr.,  
Secretary and Director

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*R. E. Powers*  
R. E. Powers,  
Engineering Supervisor

RMA/ar

cc: Union Oil of California  
619 W. Texas  
Midland, Texas 79701

New Mexico State Engineer  
Capitol Building  
Santa Fe, New Mexico

Skelly Oil Company  
P. O. Box 1650  
Tulsa, Oklahoma  
Attn: Mr. George W. Selinger

Scharbauer Cattle Company  
111 So. Loraine  
Midland, Texas 79701

The undersigned has no objection to the salt water disposal Application referred to above.

Company Skelly Oil Co.  
By George W. Selinger

Date 10/21/66



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

October 27, 1966

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, NEW MEXICO 87501

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

1966 OCT 29 11 03 AM

Dear Mr. Porter:

Reference is made to the application of Sinclair Oil & Gas Company dated October 14, 1966 which seeks administrative approval to convert their State Lea 403 well #7 in Sec. 16, T.18 S., R. 35 E., to a salt water disposal.

I have reviewed the application and the attached exhibits and offer no objection to the granting of this application, provided the well is completed and operated in the manner indicated by the application and the exhibits submitted therewith.

FEI/ma  
cc-Sinclair Oil & Gas Co.  
F. H. Hennighausen

Yours truly,

S. E. Reynolds  
State Engineer

By: *Frank E. Irby*  
Frank E. Irby  
Chief  
Water Rights Div.

NOV 7 AM 8 3  
OIL CONSERVATION COMMISSION  
1 DISTRICT

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE Nov. 2, 1966

Re: Proposed NSP \_\_\_\_\_  
Proposed Triple \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NFO \_\_\_\_\_  
Proposed DC \_\_\_\_\_

SWD X

Gentlemen:

I have examined the application dated 10/31/66

for the Sinclair Oil & Gas Co. State Lea 403 #7 16-18-35  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---E.F.E.

O.K.---J.W.R.

Yours very truly,

