



12 December, 1975

State of New Mexico  
Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

As a result of a hearing before the Commission on November 4, 1968, Order No. R-3550, the Commission authorized Champlin Petroleum Company to institute the Champlin Chaveroo Lauck Waterflood Project and the Champlin Chaveroo State 32 Waterflood Project in the Chaveroo - San Andres Pool, Roosevelt County, New Mexico.

Champlin requests Administrative Approval to expand this project by converting Lauck-Federal No. 13, located in Unit N of Section 29, T-7-S, R-33-E, Chaveroo - San Andres Pool, Roosevelt County, New Mexico, to water injection.

In support of this application, the following data is submitted:

Form C-108  
Plat of Area  
Diagrammatic Sketch of Proposed Injection Well  
Waiver Request to Offset Operator  
Analysis of Water to be Injected

In accordance with Commission rules and regulations, a copy of the application has been mailed this date to all operators offsetting the proposed injection well. Additionally, it has been requested of these operators, as well as the surface owner of the land, to waive any objection to the conversion of this well to water injection and to so indicate by mailing an executed copy of the waiver request to the Commission in Santa Fe.

If additional information is needed, please advise this office.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

D. C. Condie  
District Engineer

DCC:bg  
cc: NMOCC - Hobbs ✓  
USGS - Hobbs

Champlin Petroleum Company  
~~801 Wilco Building~~  
701 Wilco Building  
Midland, Texas 79701  
915/682-3775

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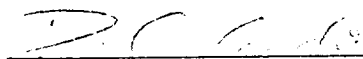
OIL CONSERVATION COMM.  
HOBBS, N. M.

## NEW MEXICO OIL CONSERVATION COMMISSION

## APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

|                                                                                                                                                                                                             |                                                                                       |                                                                            |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| OPERATOR<br><b>Champlin Petroleum Company</b>                                                                                                                                                               |                                                                                       | ADDRESS<br><b>701 Wilco Bldg, Midland, Texas 79701</b>                     |                                                                                                |
| LEASE NAME<br><b>Lauck-Federal</b>                                                                                                                                                                          | WELL NO.<br><b>13</b>                                                                 | FIELD<br><b>Chaveroo (San Andres)</b>                                      | COUNTY<br><b>Roosevelt</b>                                                                     |
| LOCATION<br>UNIT LETTER <b>N</b> ; WELL IS LOCATED <b>660</b> FEET FROM THE <b>South</b> LINE AND <b>1980</b> FEET FROM THE <b>West</b> LINE, SECTION <b>29</b> TOWNSHIP <b>7-S</b> RANGE <b>33-E</b> NMPM. |                                                                                       |                                                                            |                                                                                                |
| CASING AND TUBING DATA                                                                                                                                                                                      |                                                                                       |                                                                            |                                                                                                |
| NAME OF STRING                                                                                                                                                                                              | SIZE                                                                                  | SETTING DEPTH                                                              | SACKS CEMENT                                                                                   |
| SURFACE CASING                                                                                                                                                                                              | <b>8-5/8"</b>                                                                         | <b>365'</b>                                                                | <b>250</b>                                                                                     |
| INTERMEDIATE                                                                                                                                                                                                |                                                                                       |                                                                            |                                                                                                |
| LONG STRING                                                                                                                                                                                                 | <b>4-1/2"</b>                                                                         | <b>4455'</b>                                                               | <b>325</b>                                                                                     |
| TUBING<br><b>plastic coated internally</b>                                                                                                                                                                  | <b>2-3/8"</b>                                                                         | <b>4150'</b>                                                               | NAME, MODEL AND DEPTH OF TUBING PACKER<br><b>Baker AD-1</b>                                    |
| NAME OF PROPOSED INJECTION FORMATION<br><b>San Andres</b>                                                                                                                                                   |                                                                                       | TOP OF FORMATION<br><b>4040'</b>                                           | BOTTOM OF FORMATION<br><b>4455'</b>                                                            |
| IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?<br><b>internal coated tubing</b>                                                                                                                           |                                                                                       | PERFORATIONS OR OPEN HOLE?<br><b>Perforations</b>                          | PROPOSED INTERVAL(S) OF INJECTION<br><b>4204-4408'</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>oil producer</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<br><b>None</b>                                                                                                      |                                                                                       |                                                                            |                                                                                                |
| DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA<br><b>170'</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>None</b>                         |
| ANTICIPATED DAILY INJECTION VOLUME (BBL/S.)<br><b>400</b>                                                                                                                                                   | MINIMUM<br><b>200</b>                                                                 | MAXIMUM<br><b>600</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>600</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 --                                                      |                                                                                       | WATER TO BE DISPOSED OF<br><b>Yes</b>                                      | NATURAL WATER IN DISPOSAL ZONE<br><b>Yes</b>                                                   |
|                                                                                                                                                                                                             |                                                                                       | ARE WATER ANALYSES ATTACHED?<br><b>Yes</b>                                 |                                                                                                |
| NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)<br><b>Federal Lessee - George A. Lauck, 935 Olive St., Fresno, Calif. 93728</b>                                                     |                                                                                       |                                                                            |                                                                                                |
| LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL<br><b>Tom S. Schneider - Route 2, Box 562, Eagle Pass, Texas 78852</b>                                          |                                                                                       |                                                                            |                                                                                                |
|                                                                                                                                                                                                             |                                                                                       |                                                                            |                                                                                                |
|                                                                                                                                                                                                             |                                                                                       |                                                                            |                                                                                                |
|                                                                                                                                                                                                             |                                                                                       |                                                                            |                                                                                                |
|                                                                                                                                                                                                             |                                                                                       |                                                                            |                                                                                                |
| HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?                                                                                                                                         |                                                                                       | EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL                            |                                                                                                |
| <b>Yes - USGS</b>                                                                                                                                                                                           |                                                                                       | <b>Yes</b>                                                                 |                                                                                                |
| ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)                                                                                                                                       |                                                                                       | THE NEW MEXICO STATE ENGINEER                                              |                                                                                                |
| 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.

  
**D. C. Condie** (Signature)

**District Engineer**  
 (Title)

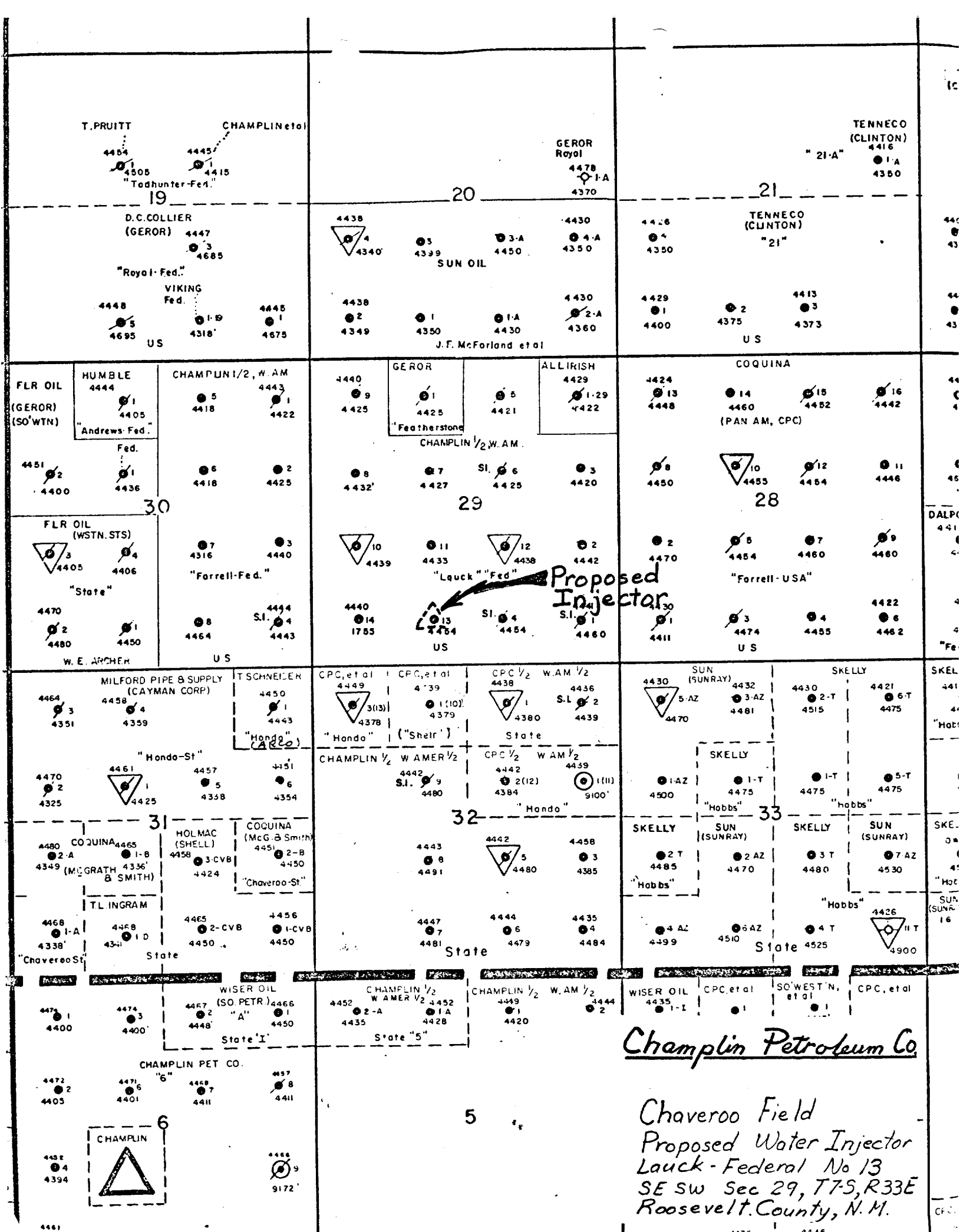
**12/12/75**  
 (Date)

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.

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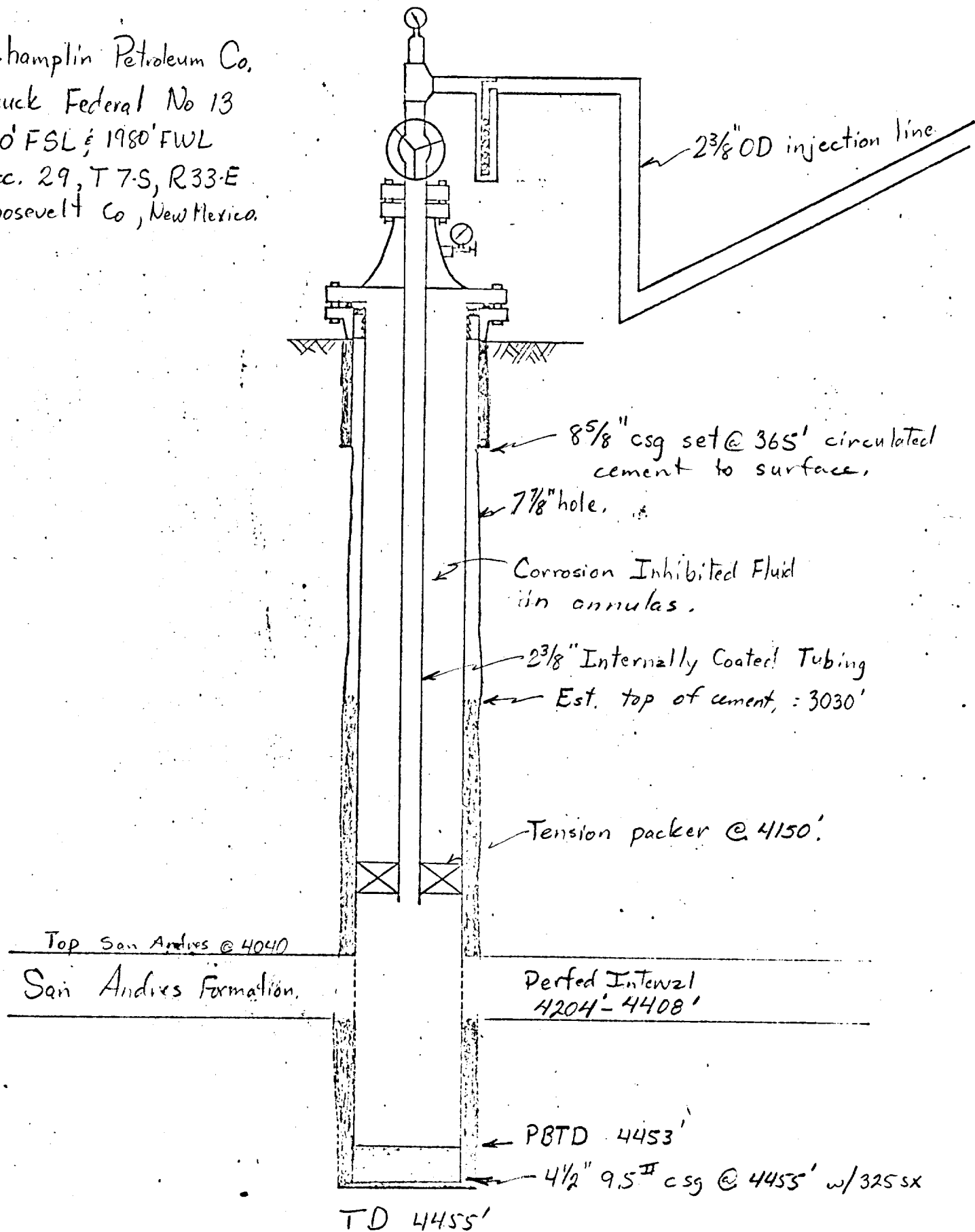
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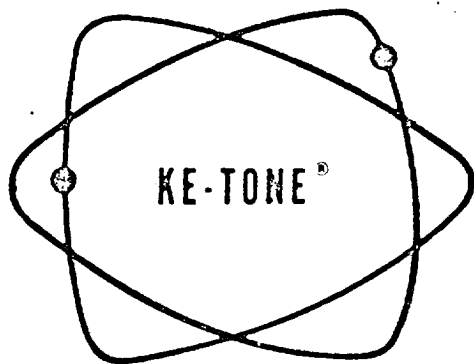
# Diagram of Proposed Injection Well.

Champlin Petroleum Co.  
 Lauck Federal No 13  
 660' FSL & 1980' FWL  
 Sec. 29, T 7-S, R 33-E  
 Roosevelt Co, New Mexico.



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D.C.

TELEPHONE: HOBBS 393-7751  
AREA CODE - 505

JAN 2 1975

UNITED CHEMICAL CORPORATION  
OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company Champlin Oil Company  
Field San Anres - Chavero Field  
Lease Lauck Federal #13 Sampling Date 12-20-74  
Type of Sample Wellhead

## WATER ANALYSIS

| IONIC FORM                                              | me/l *   | mg/l *  |
|---------------------------------------------------------|----------|---------|
| Calcium (Ca++)                                          | 1,880.00 | 37,600  |
| Magnesium (Mg++)                                        | 1,133.04 | 13,596  |
| Sodium (Na+) (calculated)                               | 2,498.67 | 57,444  |
| Iron (Total)                                            |          | 1,200   |
| Bicarbonate (HCO <sub>3</sub> -)                        | 7.30     | 445     |
| Carbonate (CO <sub>3</sub> -)                           | Not      | Found   |
| Hydroxide (OH -)                                        | Not      | Found   |
| Sulphate (SO <sub>4</sub> -)                            | 5.41     | 260     |
| Chloride (Cl -)                                         | 5,499.00 | 195,000 |
| ph c 6.5 °F 68                                          |          |         |
| Dissolved Solids on Evap. at 103° - 105° C              |          |         |
| Hardness as Ca CO <sub>3</sub>                          | 3,013.04 | 150,652 |
| Carbonate Hardness as CaCO <sub>3</sub> (temporary)     | 7.30     | 365     |
| Non-Carbonate Hardness as CaCO <sub>3</sub> (permanent) | 3,005.74 | 150,287 |
| Alkalinity as CaCO <sub>3</sub>                         | 7.30     | 365     |
| Specific Gravity c 68° F 1.210                          |          |         |

MOORE BUSINESS FORMS INC. LA

- \* mg/l = milligrams per Liter
- \* me/l = milliequivalents per Liter

CaCO<sub>3</sub> s.i. positive @ 86° F (2.81)  
CaSO<sub>4</sub> s.i. negative

~~~~~ Makes Water Work ~~~~~

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