

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

|  |  |  |                          |  |                      |
|--|--|--|--------------------------|--|----------------------|
| OPERATOR<br><b>Araho, Inc.</b>   |  | ADDRESS<br><b>P. O. Box 5456, Midland, Texas 79701</b> |                          |  |                      |
| LEASE NAME<br><b>State SWD</b>   |  | WELL NO.<br><b>2</b>                                   | FIELD<br><b>Dry Hole</b> |  | COUNTY<br><b>Lea</b> |
| LOCATION<br>UNIT LETTER <b>F</b> ; WELL IS LOCATED <b>2310</b> FEET FROM THE <b>West</b> LINE AND <b>1650</b> FEET FROM THE <b>North</b> LINE, SECTION <b>2</b> TOWNSHIP <b>17S</b> RANGE <b>36E</b> NMPM. |  |  |                          |  |                      |

| CASING AND TUBING DATA |               |               |   |                   |                     |
|------------------------|---------------|---------------|---|-------------------|---------------------|
| NAME OF STRING         | SIZE          | SETTING DEPTH | SACKS CEMENT  | TOP OF CEMENT     | TOP DETERMINED BY   |
| SURFACE CASING         | <b>13 3/8</b> | <b>349'</b>   | <b>450</b>  | <b>Circulated</b> | <b>Visual</b>       |
| INTERMEDIATE           | <b>9 5/8</b>  | <b>3318'</b>  | <b>1750</b>   | <b>Circulated</b> | <b>Visual</b>       |
| LONG STRING            | <b>5 1/2</b>  | <b>8528'</b>  | <b>1400</b>   | <b>3000</b>       | <b>Temp. Survey</b> |
| TUBING                 | <b>2 7/8</b>  | <b>6300'</b>  | NAME, MODEL AND DEPTH OF TUBING PACKER<br><b>Baker Model "V" 5800</b> |                   |                     |

|   |   |  |  |
|---|---|--|--|
| NAME OF PROPOSED INJECTION FORMATION<br><b>San Andres, ABO, Paddock</b>   |   | TOP OF FORMATION<br><b>8300'</b>           | BOTTOM OF FORMATION<br><b>8900'</b>  |
| IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?<br><b>Tubing</b>   |   | PERFORATIONS OR OPEN HOLES?<br><b>Both</b> | PROPOSED INTERVAL(S) OF INJECTION<br><b>Perf 5845, 8480, 8528, 8900 Openhole</b>               |
| IS THIS A NEW WELL DRILLED FOR DISPOSAL?<br><b>Old well</b>   | IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?<br><b>ABO producer - Deepen from 8528-</b> |  | HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?<br><b>Yes</b> |
| LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH<br><b>deepened from 8528'</b> |   |  |  |

|   |                        |  |   |  |  |
|---|------------------------|--|---|--|--|
| DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA<br><b>200'</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>7000</b>  | MINIMUM<br><b>5000</b> | MAXIMUM<br><b>9000</b>   | OPEN OR CLOSED TYPE SYSTEM<br><b>Closed</b> | IS INJECTION TO BE BY GRAVITY OR PRESSURE?<br><b>Gravity</b>           | APPROX. PRESSURE (PSI)<br><b>20" Vac.</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>Yes</b> |
| NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)<br><b>City of Lovington</b>   |                        |  |   |  |  |

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

Note: The 5 1/2" casing liner or tie in string and the 2 7/8" tubing to be run after approval of this application.

**Skelly Oil Company, 2nd Floor, Wall Towers West, Midland, Texas**

Note: Rice Engineering has a SWD well 1/4 mile north of this well, disposing in approximately the same interval.

|   |               |   |                             |
|---|---------------|---|-----------------------------|
| HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?   | SURFACE OWNER | EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL |                             |
| <b>Yes</b>  | <b>Yes</b>    | <b>Yes</b>                                      |                             |
| ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) | PLAT OF AREA  | ELECTRICAL LOG                                  | DIAGRAMMATIC SKETCH OF WELL |
| <b>Yes</b>  | <b>Yes</b>    | <b>Yes</b>                                      | <b>Yes</b>                  |

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

*Carl R. Bruno*  
(Signature)

**Vice President**  
(Title)

**May 11, 1976**  
(Date)

NOTE: Should waivers from 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.