

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

APPLICATION
TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION
NOT PRODUCTIVE OF OIL OR GAS

April 23, 1958

Pool Name Dean Permo-Penn & Devonian County Lea
Operator Sinclair Oil & Gas Company (Drilled by Carlton Beal)
Address P. O. Box 1470, Midland, Texas
Lease Name State (Section 4-16S-37E) Well No. 1
Depth to top of injection zone 5000' (San Andres) and/or 3246' (Yates)
Depth to base of injection zone 6338' (San Andres) and/or 3523' (Yates)
Size of surface casing 13 3/8" OD
Length of surface casing 445 Feet
Number of sacks of cement used on surface casing 500
Size of long string 8 5/8" OD: (5 1/2" casing cut @ 9000' & pulled)
Number of sacks of cement used on long string 2440 sx (3 5/3) Circulated
Size of tubing 3 1/2" OD (If necessary) Length of tubing 5000' or 3200' (If necessary)
Depth of tubing packer setting 4950' or 3200' (If necessary)
Name and model of packer Baker Model A Tension Packer (If necessary)
Is injection through tubing or long string of annulus? Long string or tubing
Open hole in San Andres and/or
Is injection through perforations or open hole? perforations in Yates
No, (Dry hole in Dean
Was the well drilled for salt water disposal purposes? Permo-Penn)
List perforated intervals and number of sacks of cement used on any squeeze cementing operations 11554-11582 & 11592-11630 * (See below)
What is depth of the shallowest zone productive of oil or gas in this pool? 10,400'
What is depth of the deepest zone containing fresh water in this pool? 50 - 180'
Are there any other salt water disposal wells in this pool using this same zone for injection purposes? No If so, list operator, lease and well number _____

What is the approximate volume of salt water to be injected daily? 2000 bbls/day initially
Will system be open or closed type? Closed
Will injection be by gravity or pump pressure? Pump pressure
If by pump pressure, give approximate number of pounds per square inch 1000 - 1500
Will it be necessary for water to be filtered or chemically treated? No

- (1) Cast iron bridging plug set at 10500 feet w/2 sacks cement on top.
- (2) Spotted 25 sacks cement at top of 5 1/2" (8958 - 9080')
- (3) Set 140 sack cement plug from 6338 to 6911 feet.
- (4) Hole full of drilling mud between and below above plugs.
(See attached diagrammatic sketch.)

Note: Tubing and packer will be used if injection pressures or unforeseeable corrosion problems so require.

Is this well so cased and completed that water can enter no other formation than the above set out injection zone? Yes

- 1. Attach a complete full-scale electrical log of this well. (One copy to OCC only.)
One copy of electric log as attached.
- 2. List Names and addresses of all offset operators and surface owners.

The Atlantic Refining Company, P. O. Box 1610, Houston, Texas.
Magnolia Petroleum Company, P. O. Box 900, Dallas, Texas.
Humble Oil & Refining Company, P. O. Box 1600, Midland, Texas.
Columbian Carbon Company, San Jacinto Building, Houston, Texas.
Cities Service Oil Company, Leggett Building, Midland, Texas.
Gulf Oil Corporation, P. O. Box 4232, Odessa, Texas.
Mr. & Mrs. John Macloy (Surface Owner), P. O. Box 779, Lovington, New Mexico.

- 3. Have notices of this application been sent by registered mail or given to all offset operators and to the New Mexico State Engineer? Yes
- 4. Attach waivers from all offset operators and New Mexico State Engineer.
Waivers not requested - See paragraph 6 below.
- 5. Attach waivers from surface owners of land on which well is located or a letter from company making application to the surface owner explaining said application and requesting waiver. See attachment.
- 6. No application will be processed until Item 1 has been attached to the application. Should all necessary waivers not accompany application, the Commission shall hold such application for a period of fifteen (15) days from date of receipt in the Santa Fe Office. If, after said fifteen (15) day period, no protest or request for hearing is received in the Santa Fe Office, the application will then be processed.

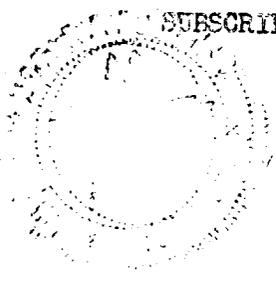
SUNLAIR OIL & GAS COMPANY
 Operator
 By H. F. Defenbaugh
 H. F. Defenbaugh
 Division Production Superintendent

THE STATE OF Texas
 COUNTY OF Midland

BEFORE ME, The undersigned authority, on this day personally appeared H. F. Defenbaugh known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN To before me, this the 23 day of April, 19 58.

Roy D. Satterwhite Roy D. Satterwhite
 Notary Public in and for Midland
 County, Texas.



ALL OPERATORS LISTED
 ALL operators listed in Item 2 above.
 New Mexico State Engineer, P. O. Box 1079, Santa Fe, New Mexico.

- Attachments:
- (1) Electric log on Subject well (OCC copy only).
 - (2) Area map.
 - (3) Diagrammatic sketch of proposed installation.

cc: THR, LAN, HFD, CCS, WJR.