

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

✓ POOL Name South Denton Devonian County Lea

✓ Operator Magnolia Petroleum Company

✓ Address P. O. Box 2406, Hobbs, New Mexico (District Office)

✓ Lease Name New Mexico "H" Well No. 2

✓ Depth to top of injection zone 10,674
) Pennsylvanian, Lea Simulation Zone

✓ Depth to base of injection zone 10,679

✓ Size of surface casing 13-2/8"

✓ Length of surface casing 422'

✓ Number of sacks of cement used on surface casing 425 (Circ.)

✓ Size of long string 7-5/8" Liner

✓ Length of long string 6080' (From 4,800', Top, to 10,880', Bottom, both subsurface)

✓ Number of sacks of cement used on long string 300

✓ Size of tubing None to be used Length of tubing -

✓ Depth of tubing packer setting None to be set

✓ Name and model of packer -

✓ Is injection through tubing or long string or annulus? Long String

Is injection through perforations or open hole? Perforations (10,674-10,679)

Was the well drilled for salt water disposal purposes? Lea Devonian Test (Dry Hole)

List perforated intervals and number of sacks of cement used on any squeeze cementing operations 13,197-13,222 - Squeeze w/50 sx.; 13,197-13,207 - Squeeze w/75 sx.; 13,160-13,173 - Squeeze w/75 sx.

What is depth of the shallowest zone productive of oil or gas in this Pool? 13,152 (Devonian)
120'-200'

What is depth of the deepest zone containing fresh water in this Pool? (Sand lenses)

Are there any other salt water disposal wells in this Pool using this same zone for injection purposes? Yes If so, list operator, lease and well number

Signal Oil & Gas Company - Gulf-State Well No. 2, SW/4, NW/4, Section 4, Twp-16S, Rge-38E, (Commission order No. SMD-4, August 10, 1957)

What is the approximate volume of salt water to be injected daily? 120 BPD (current)
-1500 BPD (maximum)

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Gravity

If by pump pressure, give approximate number of pounds per square inch -

Will it be necessary for water to be filtered or chemically treated? No

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

1. Attach a complete full-scale electrical log of this well (one Copy to OCC only).
2. List names and addresses of all offset operators and surface owners.

Operators - Shell Oil Company, P. O. Box 315, Roswell, New Mexico
Signal Oil & Gas Company, 1910 St. North Nat'l. Bank Bldg.,
Fort Worth, Texas

Surface Owner - State of New Mexico, w/Deeds to Individuals

3. Have notices of this application been sent by registered mail or given to all offset operators, surface owners and to the N. M. State Engineer? Yes
4. Attach waivers from all offset operators.
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.
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.

LAZOLIA PETROLEUM COMPANY
Operator

John L. Sanders
By John L. Sanders

THE STATE OF New Mexico

COUNTY OF Lea

BEFORE ME, The undersigned authority, on this day personally appeared John L. Sanders 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 23rd day of January 1958.

Shanda Bottles
Notary Public in and for Lea
County, New Mexico

MY COMMISSION EXPIRES Aug. 20, 1960.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
P. O. BOX 1079
SANTA FE, N. M.

February 6, 1958

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

Attn. Mr. Daniel S. Nutter

Dear Mr. Nutter:

We have received from Magnolia Petroleum Company a copy of their application to dispose of salt water by injection into a porous formation (Pennsylvanian), the injection zone to be between the depths 10,674 and 10,679.

This office has no objection to disposal of salt water in the manner proposed in this application. As a matter of identification, I probably should say that the Pool name is South Denton Devonian in Lea County, the Lease Name is New Mexico "M", Well No. 2.

Please notify me at your earliest convenience what SWD number has been assigned this application.

Yours truly,

S. E. Reynolds
State Engineer

FEI/ma
cc-F. H. Hennighausen

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