

MAGNOLIA PETROLEUM COMPANY

A SOUTHWESTERN PETROLEUM COMPANY
INCORPORATED IN TEXAS
1917 FEB 17 44

Box 2406, Hobbs, New Mexico
January 24, 1957

*SWD-1
Jan 24/57*

*OCC
Hobbs*

*mark
isn't this
OK.*

Oil Conservation Commission
Santa Fe, New Mexico

Dear Sir:

Submitted herewith is an application to dispose of produced salt water by injection into the San Andres formation of Magnolia Petroleum Company's Santa Fe Pacific C #2, which is located 1980' FSL and 1650' FWL of Section 26, T9S, R36E, Lea County, New Mexico. An electrical log of the subject well and an application to the surface owner requesting waiver are attached.

*Wynn
J. E. P.*

The proposed injection zone in the San Andres formation is non-productive of oil and/or gas within a radius of 2 miles from Santa Fe Pacific C #2. The water in the San Andres formation is not considered fit for domestic, stock or irrigation. Analysis of water in this area indicated a chloride content of 130,000 ppm.

The produced water from the Pennsylvanian and Devonian reservoirs is also considered unfit for domestic use. Analysis of these waters showed chloride concentrations of 74,000 ppm and 33,000 ppm, respectively.

It is proposed that produced water from the offset leases will also be injected into the subject well. Field operators are negotiating an agreement for disposal of the produced water into a common disposal well, Santa Fe Pacific C #2.

A copy of this application has been sent by registered mail to the State Engineer's Office, Box 1079, Santa Fe, as well as all offset operators, and the surface owner, Mr. U. D. Sawyer.

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 Crossroads County Lea
Operator Magnolia Petroleum Company
Address P. O. Box 2406, Hobbs, New Mexico
Lease Name Santa Fe Pacific Well No. C-2
Depth to top of injection zone 1706'
Depth to base of injection zone 5616'
Size of surface casing 13 3/8"
Length of surface casing 154'
Number of sacks of cement used on surface casing 150
Size of long string 8 5/8"
Length of long string 1706'
Number of sacks of cement used on long string 2395 sacks 6% Gel, 114 sacks Signalite,
200 sacks Neat
Size of tubing None Length of tubing _____
Depth of tubing packer setting _____
Name and model of packer _____
Is injection through tubing or long string or annulus? Long string
Is injection through perforations or open hole? Open hole
Was the well drilled for salt water disposal purposes? No
List perforated intervals and number of sacks of cement used on any squeeze cementing
operations None
What is depth of the shallowest zone productive of oil or gas in this
Pool 9700'
What is depth of the deepest zone containing fresh water in this Pool? 390'
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? 2500 barrels
Will system be open or closed type? Partially closed
Will injection be by gravity or pump pressure? Pump pressure
If by pump pressure, give approximate number of pounds per square inch 300
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.

Oil Development Company of Texas, 900 Polk St., Amarillo, Texas

Sunray Mid-Continent Oil Company, Midland National Bank Building, Midland, Texas

Warren Petroleum Corp., Drawer H, Seminole, Texas

U. D. Sawyer, Crossroads, New Mexico

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.

Magnolia Petroleum Company
Operator

C. J. Evans
By

THE STATE OF New Mexico

COUNTY OF Lea

BEFORE ME, The undersigned authority, on this day personally appeared C. J. Evans 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 21th day of January 19 57.

MY COMMISSION EXPIRES JUNE 3, 1959

Joseph O. Walton
Notary Public in and for Lea
County, N. M.

January 29, 1957.

Magnolia Petroleum Company
P. O. Box 662
Roswell, New Mexico

Gentlemen:

You have advised me that you have filed Case No. 1163 in the New Mexico Oil Conservation Commission, which is an application to use a well in the NE¹/₄SW¹/₄ Section 26, Twp. 9 S., Rge. 36 E., N.M.P.M., as a well into which salt water may be injected in the San Andres Formation at about 4706 to 5616 feet from the surface, and said well is to be used as a salt water disposal well.

As surface owner of the land where the above described disposal well is located I hereby consent to the foregoing use of said well. A copy of this letter may be delivered to said Oil Conservation Commission to reflect my consent.

Yours very truly,

U. D. Sawyer
U. D. Sawyer

