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Hobbs

SWD-1
RM 2/14/57

MAGNOLIA PETROLEUM COMPANY

A SOCONY MOBIL COMPANY

Box 2406, Hobbs, New Mexico
January 24, 1957

Oil Conservation Commission
Santa Fe, New Mexico

FD 12368
PB 5640 (m) 4720-5616

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' ESL 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.

NE 74 SW 1/4

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.

The applicant alleges that the granting of this application will be in the interest of conservation and aid in the prevention of any pollution of the fresh water strata.

Yours very truly,

MAGNOLIA PETROLEUM COMPANY


C. T. Evans
District Petroleum Engineer

RJC:sd

Att.

cc: Oil Conservation Commission, Santa Fe (1 Electric Log on
original only) (2)

State Engineer's Office, Box 1079, Santa Fe

U. D. Sawyer, Crossroads, New Mexico

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

Sunray Mid-Continent Oil Co., Midland National Bank Building,
Midland, Texas

Warren Petroleum Corp., Drawer H, Seminole, Texas

S. Fannifin

W. C. Dougherty (2)

I. E. Stitt, Jr. (2)

W. H. Leach

File

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. 3-2

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 151'

Number of sacks of cement used on surface casing 150

Size of long string 6 5/8"

Length of long string 1706

Number of sacks of cement used on long string 2395 sacks 60 Gel, 111 sacks Signalite,
200 sacks Heat

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.

Cil Development Company of Texas, 900 Folk St., Amarillo, Texas

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

Warren Petroleum Corp., Drawer E, Seminole, Texas

J. 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. T. Evans
By

THE STATE OF New Mexico

COUNTY OF Lea

BEFORE ME, The undersigned authority, on this day personally appeared C. T. 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 24th day of January 19 57.

THE COMMISSION EXPIRES JAN 1, 1958

Joseph A. Walter
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 NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE Feb. 14, 1957

See 2/16/57

MR. W. B. MACEY
OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

RE: SWD
PROPOSED ~~XXX~~ ORDER NO. 1

Dear Mr. Macey:

SWD

I have examined the application for "~~XXXXXX~~ Order " for the

Magnolia Pet. Co. Santa Fe Pacific "C" #2 26-9-36
Lease and Well No. S-T-R

and my recommendations are:

O.K.---E.J.F.

O.K.---J.W.R.

Yours very truly,

OIL CONSERVATION COMMISSION

E. J. Fisher

Engineer-District 1