

Case # 2706

1962 NOV 14 AM 10:30
STATE ENGINEER OFFICE
SANTA FE, N.M.
Copy - Sent back to
Jim Kaptain at
O.C. [Signature]

November 9, 1962

Mr. S. E. Reynolds
State Engineer
Santa Fe, New Mexico

Attention: Mr. Frank E. Irby

Gentlemen:

Please find attached Application of The Pure Oil Company to dispose of salt water into the Devonian formation in the South Vacuum Field, Lea County, New Mexico.

It is requested that approval of your office of this Application be furnished the Oil Conservation Commission with a copy to The Pure Oil Company, P. O. Box 671, Midland, Attention: Mr. J. R. Murphey, Jr.

Yours very truly,
[Signature of J. R. Murphey, Jr.]
J. R. Murphey, Jr.
District Petroleum Engineer

JRM/es
encl.

cc: Mr. A. L. Porter
Secretary Director
Oil Conservation Commission
Santa Fe, New Mexico

M 2 15

BEFORE THE OIL CONSERVATION
COMMISSION OF NEW MEXICO

APPLICATION OF THE PURE OIL)
COMPANY FOR PERMISSION TO)
DISPOSE OF SALT WATER, LEA)
COUNTY, NEW MEXICO)

Case No. 2706

A P P L I C A T I O N

Comes now THE PURE OIL COMPANY, an Ohio corporation authorized to do business in New Mexico, and applies to the OIL CONSERVATION COMMISSION OF NEW MEXICO for permission to dispose of salt water, and in support of its application states:

1. That The Pure Oil Company is the designated operator of the South Vacuum Unit in Lea County, New Mexico and is to be the operator of a field-wide salt water disposal system in the South Vacuum Field.
2. That The Pure Oil Company is the owner and operator of the State Lea "I" Well No. 1-36 located in Unit M of Sec. 36 Township 18 South, Range 35 East, Lea County, New Mexico. This well is temporarily inactive, although it has been previously authorized for use as a salt water disposal well. It is proposed by this application to utilize this well as a salt water disposal well with injection to be into the Devonian formation in the interval from 11,600 feet to 11,900 feet which interval is below the oil-water contact.
3. That it is proposed to inject salt water into the Devonian formation through a three and one-half inch plastic coated tubing beneath a hydraulically operated packer set at an approximate depth of 11,600 feet. The annular space between the three and one-half inch tubing and the open hole will be filled above the packer to the surface with mud-laden fluid.
4. That the said State Lea "I" Well No. 1-36 will be the salt water disposal well for the field-wide salt water disposal

DOCKET MAILED

Date _____

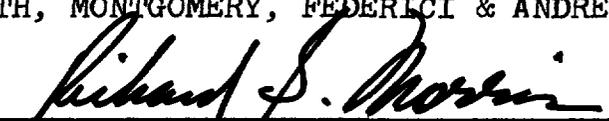
system referred to, and initially 3,000 barrels of salt water per day will be injected into this well.

5. That the proposed application is in the best interest of conservation, and will prevent surface waste and pollution.

WHEREFORE, applicant requests that this application be set for hearing before one of the Commission's Examiners on November 20, 1962, or as soon as the case may be heard, and that upon the evidence to be presented at that hearing the Commission enter its order approving this application.

SETH, MONTGOMERY, FEDERICI & ANDREWS

By


Attorneys for The Pure Oil Company

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STATE ENGINEER OFFICE
SANTA FE, N.M.

Revised 9 16 58

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

APPLICATION # 07
TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION
~~NOT~~ PRODUCTIVE OF OIL OR GAS

Operator The Pure Oil Company Address P.O. Box 671, Midland, Texas

Lease State-Lea I Well No. 1 County Lea

Unit M Section 36 Township 18S Range 35E

This is an application to dispose of salt water produced from the following pool(s):

South Vacuum Devonian

Name of Injection Formation(s): Devonian

Top of injection zone: ± 11,600 Bottom of injection zone: ± 11,900

Give operator, lease, well no., and location of any other well in this area using this same zone for disposal purposes: None

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	11-3/4	455	475	Surface
Intermediate	8-5/8	3801	1235	Surface
Long String	3-1/2	11,600	*	*

Will injection be through tubing, casing, or annulus? Plastic coated tubing

Size tubing: 3-1/2" Setting depth: 11,600 Packer set at: 11,600

Name and Model No. of packer: Hydraulically Set Open Hole Packer

Will injection be through perforations or open hole? Open hole

Proposed interval(s) of injection: 11,600 - 11,900

Well was originally drilled for what purpose? No

Has well ever been perforated in any zone other than the proposed injection zone? No

List all such perforated intervals and sacks of cement used to seal off or squeeze each:

Give depth of bottom of next higher zone which produces oil or gas: South Vacuum Devonian oil water contact

Give depth of top of next lower zone which produces oil or gas: None in this well

Give depth of bottom of deepest fresh water zone in area: 350' (estimated)

Expected volume of salt water to be injected daily (barrels): 2500

Will injection be by gravity or pump pressure? Gravity Estimated pressure: 0

Is system open or close type? closed Is filtration or chemical treatment necessary? No

*An open hole hydraulically set packer will be set at approximately 11,600, and the tubing - open hole will be filled with heavy mud laden fluid.

11.2

