Case #1706

1962 NOV 14 AM 10:30
STATE ENGINEER OFFICE
SANTA FE, N.M.

Copy sent back to Dian Kopteinat O.C.C. Irby

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,

J. R. Murphey, Jr.
District Petroleum Engineer

JRM/es
encl.

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

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 Richard S. Morris
Attorneys for The Pure Oil Company

Revised 9 16 58

1962 NOV 14 AM 10:30
STATE ENGINEER OFFICE
SANTA FE, N.M.

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

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.

Is the water to be disposed of mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

Is any water occurring naturally within the proposed disposal formation mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

List all offset operators to the lease on which this well is located and their mailing address

Carper Drilling Co. - 200 Carper Bldg., Artesia, New Mexico

Hondo Oil & Gas Co. - 410 E. College Blvd., Roswell, New Mexico

Cities Service Petroleum Co. - P. O. Box 868, Roswell, New Mexico

Shell Oil Co. - P. O. Box 845, Roswell, New Mexico

Union Oil Co. of California - 619 W. Texas, Midland, Texas

Sinclair Oil & Gas Co. - P. O. Box 1470, Midland, Texas

Name and address of surface owner W. M. Snyder, Box 726, Lovington, New Mexico

Have copies of this application been sent by ~~registered~~ mail or given to all offset operators, surface owners, and to the New Mexico State Engineer? Yes

Is a complete electrical log of this well attached? Previously filed

Operator: The Pure Oil Company

By: J. R. Murphey, Jr.

Title: District Petroleum Engineer

STATE OF Texas)
) ss.
County of Midland)

BEFORE ME, The undersigned authority, on this day personally appeared J. R. Murphey, Jr. 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 9th day of November, 1962.

L. L. Suttle

Notary Public in and for the County of Midland
Texas

June 1, 1963
My Commission Expires

NOTE: Should waivers from all offset operators, the surface owner, and the State Engineer not accompany an application, the New Mexico Oil Conservation Commission will hold the application for a period of fifteen (15) days from date of receipt by the Commission's Santa Fe office. If at the end of said fifteen-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

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