THE PURE OIL COMPANY
SOUTHERN PRODUCING DIVISION · Hobbs District
P. O. BOX 1777 · HOBBS, NEW MEXICO · Express 7-1170

April 3, 1962

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

Dear Sir:

I would like to refer to The Pure Oil Company's October 23, 1961 "Application to Dispose of Salt Water by Injection into a Porous Formation Not Productive of Oil or Gas", and to administrative order SWD 32 for our State-Lea "I" Well No. 1-36 located in the SW/4 SW/4 of Section 36, T18S, R35E, NMPM, Lea County, New Mexico.

In our application we showed that a 5-1/2" liner would be set from 3750' to 5800' and that injection would be through 3" plasticoated tubing into the Delaware Formation in open hole from 5800' to 7030'. A cement plug would be placed at the base of the Delaware at 7030' and the packer on the tubing would be set in the 5-1/2" at 5750'.

If permissible, we would like to amend the above outline of work. We recently learned of a method of isolating the Delaware without the necessity of setting the 5-1/2" liner and we are at this time filing a new application seeking permission to use this new method.

The new method would be as follows; A cement plug would be set at the base of the Delaware as in the previous program, and a Lynes inflatable packer would be set in open hole on the tubing string at 5800'. Injection would be down 3" tubing and into the Delaware Formation below the packer. A drawing of the well is attached, showing the status for injection.

We are sending copies of this application to the State Engineers Office, the surface owner, the lease holders surrounding this well, and to all members of the South Vacuum Unit.

Yours very truly,

H. G. Teague

H. G. Teague
District Superintendent

Revised 9 16 58

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 1777 - Hobbs, New Mexico

Lease State-Lea "I" Well No. 1-36 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): Delaware

Top of injection zone: 5800' Bottom of injection zone: 7030'

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				

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

Size tubing: 3" Setting depth: 5830 Packer set at: 5800

Name and Model No. of packer: Lynes 5-5/8" AF 66 Production Injection Packer

Will injection be through perforations or open hole? Open Hole

Proposed interval(s) of injection: 5800'-7030' from bottom of packer to top cement plug

Well was originally drilled for what purpose? Oil Well (Completed as dry hole)

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:

None

Give depth of bottom of next higher zone which produces oil or gas: None in this well

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): 1100 (Initially)

Will injection be by gravity or pump pressure? Pressure Estimated pressure: 500 psi

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

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

Atlantic Refining Company - P. O. Box 6640 - Roswell, New Mexico

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

Shell Oil Company - P. O. Box 1858 - Roswell, New Mexico

Union Oil Company of California - 619 West Texas - Midland, Texas

Sinclair Oil & Gas Company - 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: R. L. Clemons

R. L. Clemons

Title: Petroleum Engineer

STATE OF New Mexico)
) ss.
County of Lea)

BEFORE ME, The undersigned authority, on this day personally appeared R. L. Clemons 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 3 day of April, 19 62.

Galen A. Delay

Notary Public in and for the County of Lea

My Commission Expires

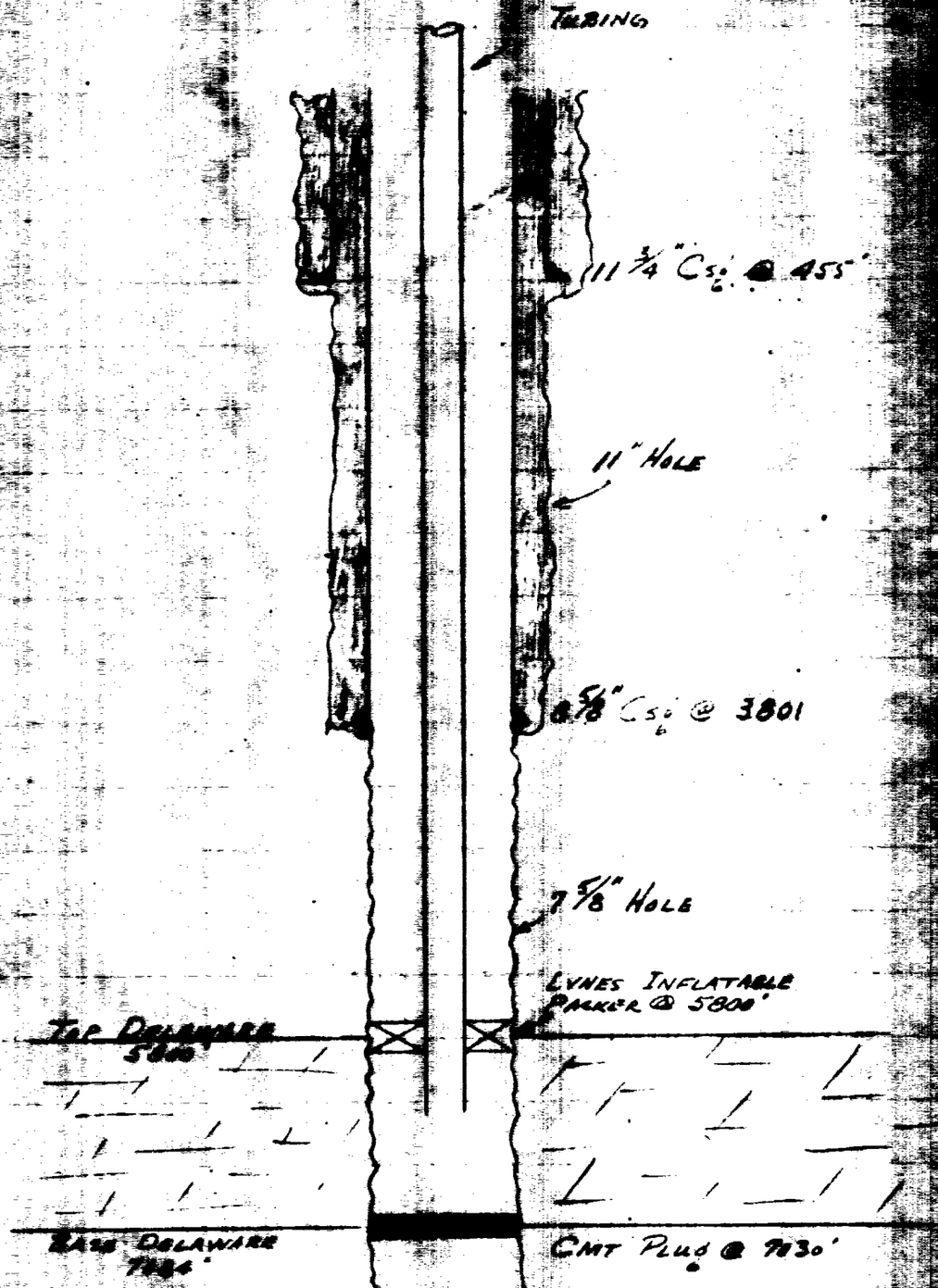
NOTE: Should waivers from all offset operators, the surface owner, and the State Engineer not accompany an application, the New Mexico Oil Conservation Commission will hold the application for a period of fifteen (15) days from date of receipt by the Commission's Santa Fe office. If at the end of said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

ir/

ILLEGIBLE

THE [illegible] CO.

STATE LEA[illegible] No 1-36



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

April 9, 1962

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

Dear Mr. Porter:

Reference is made to the application of Pure Oil Company which seeks to dispose of salt water by injection into a porous formation not productive of oil or gas through the use of State-Lea "I" Well No. 1-36 located in the SW$\frac{1}{4}$SW$\frac{1}{4}$ of Section 36, Township 18 South, Range 35 East.

If the Oil Conservation Commission is convinced that the Lynes inflatable packer and tubing will effectively seal the fluid from the hole above 5800 feet, this office will offer no objection to the granting of the application.

Yours truly,

S. E. Reynolds
State Engineer

By: Frank E. Irby
Frank E. Irby
Chief
Water Rights Div.

FEI/ma
cc-F. H. Hennighausen

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OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE April 26, 1962

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

Re: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC _____

Amended SWD _____ X

Gentlemen:

I have examined the application dated _____

for the Pure Oil Co. State Lea "I" #1-36 36-18-35
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

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

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

Yours very truly,

OIL CONSERVATION COMMISSION