



SHELL OIL COMPANY

P. O. Box 845
Roswell, New Mexico

December 4, 1958

Subject: Salt Water Disposal, Brunson Area,
Lea County, New Mexico

Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. J. Porter, Jr.

Gentlemen:

We are hereby making formal application for permission to dispose of produced salt water in our Sarkeys No. 5 well through perforations in the San Andres Zone. Copies of the application have been distributed by Certified Mail to all of the offset operators, the surface owner and the New Mexico State Engineers office.

Very truly yours,



P. A. Dennie
Division Production Manager

REC:DLH

Attachment

cc: Sinclair Oil & Gas Co.
520 East Broadway
Hobbs, New Mexico

Toklon Royalty Co.
Kennedy Bldg.
Tulsa, Oklahoma

Gulf Oil Co.
P. O. Box 2167
Hobbs, New Mexico

State Engineer's Office
P. O. Box 1079
Santa Fe, New Mexico

Greenbriar Oil Co.
1413 Continental Life Bldg.
Fort Worth 2, Texas

Tidewater Oil Co.
P. O. Box 547
Hobbs, New Mexico

Mr. Mark Owen
1021 Avenue G
Eunice, New Mexico

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 SHELL OIL COMPANY Address P. O. Box 845, Roswell, New Mexico

Lease Sarkeys Well No 5 County Lea

Unit K Section 23 Township 21-S Range 37-E

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

Penrose-Skelly, Brunson, Hare, Drinkard, Paddock, Terry-Blinebry, Wantz-Abo

Name of Injection Formation(s) San Andres

Top of injection zone 4160 feet Bottom of injection zone 4502 feet

Give operator, lease, well no, and location of any other well in this area using this same

zone for disposal purposes Gulf, E. King #2 - Unit D

Section 28, T-21-S, R-37-E

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	13 3/8"	228'	250	Surface
Intermediate	8 5/8"	2,952'	1,765	Surface
Long String	5 1/2"	2,766'-6,900'	700	2,766'

Will injection be through tubing, casing, or annulus? Tubing

Size tubing 3" Setting depth: 4,100' Packer set at 4,100'

Name and Model No. of packer Baker Model A

Will injection be through perforations or open hole? Perforations

Proposed interval(s) of injection 4160-4165', 4215-4220', 4327-4342', 4372-4398', 4497-4502'

Well was originally drilled for what purpose? Oil production

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 3,900' Grayburg

Give depth of top of next lower zone which produces oil or gas 5,150' Paddock

Give depth of bottom of deepest fresh water zone in area: 150'

Expected volume of salt water to be injected daily (barrels): 500

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

Is system open or close type? Close 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

Sinclair Oil & Gas Co., 520 East Broadway, Hobbs, New Mexico

Greenbriar Oil Co., 1413 Continental Life Bldg., Fort Worth 2, Texas

Toklon Royalty Co., Kennedy Bldg., Tulsa, Oklahoma

Tidewater Oil Co., P. O. Box 547, Hobbs, New Mexico

Gulf Oil Company, P. O. Box 2167, Hobbs, New Mexico

Continental Oil Company, P. O. Box 68, Eunice, New Mexico

Name and address of surface owner Mark Owen, 1021 Avenue G, Eunice, 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? Yes

Operator: SHELL OIL COMPANY

By: P. A. Dennie *P. A. Dennie*

Title: Division Production Manager

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

BEFORE ME, The undersigned authority, on this day personally appeared P. A. Dennie 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 18th day of December, 19 58.

Meris L. Garrison
Notary Public in and for the County of Chaves

February 7, 1961

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.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

January 13, 1959

ADDRESS CORRESPONDENCE TO:
P. O. BOX 1079
SANTA FE, N. M.

File SWD-18

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

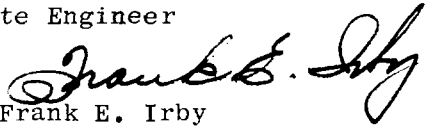
Dear Mr. Porter:

Reference is made to Shell Oil Company application to dispose of salt water by injection into a porous formation through their well No. 5, Starkeys Lease, Lea County, Unit K, Section 23, Township 21 South, Range 37 East.

The casing and cementing program set forth in the proposal appears to be adequate for the protection of the waters which we anticipate will be encountered. Therefore, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Div.

FEI/ma
cc-F. H. Hennighausen