



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

P. O. BOX 1800, HOBBS, NEW MEXICO 88240

May 6, 1965

Mr. A. L. Porter, Jr.  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

APPLICATION FOR ADMINISTRATIVE  
APPROVAL, INJECT SALT WATER  
FOR DISPOSAL, SOCONY MOBIL  
NO. 1 SANTA FE "E", SECTION 29,  
T-9S, R-36E, LEA COUNTY, NEW  
MEXICO.

Dear Mr. Porter:

Attached are the original and two copies of our application for injection of salt water for disposal in the subject well. The application is made for additional injection zones in the Glorietta, Permo-Penn, Bough "A" (Penn) and Bough "B" (Penn) formations. These additional zones are required to allow the continued use of this well for salt water disposal as the present completion in the Bough "C" formation, Order No. R-2061, is unable to satisfy injection requirements.

Yours very truly,

Glen W. Barb  
Producing Superintendent

JCGordon/jlh  
Attachment - Application

cc:  
Oil Development Co. of Texas  
900 Polk Street  
Amarillo, Texas (w/attachment)

U. D. Sawyer, Tatum, New Mexico (w/attachments)

S. E. Reynolds, State Engineer's Office, Santa Fe, New Mexico (w/attachments)

OCC, Santa Fe, New Mexico (2 cc - w/attachments)

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 Devonian County Lea

Operator Socony Mobil Oil Company, Inc.

Address P. O. Box 1800, Hobbs, New Mexico 88240

Lease Name Santa Fe "E" Well No. 1

Depth to top of injection zone 6475 (Overall) Selected Intervals

Depth to base of injection zone 9598

Size of surface casing 10-3/4", 35.75#

Length of surface casing 443'

Number of sacks of cement used on surface casing 450 sx, Top at 10'

Size of long string 7-5/8" 24-26# (inter.), 5-1/2" 17# (liner)

Length of long string 7-5/8" @ 4250', 5-1/2" @ 9602 w/top @ 4028'

Number of sacks of cement used on long string 1700 sx (7-5/8") and 150 sx (5-1/2")  
top at 420' top at 7890'

Size of tubing 3" (nom.) plastic coated Length of tubing 4480' (200 sx squeezed over liner top)

Depth of tubing packer setting 4480'

Name and model of packer Guiberson Type "A"

Is injection through tubing or long string or annulus? Tubing

Is injection through perforations or open hole? Perforations

Was the well drilled for salt water disposal purposes? No, former Pennsylvanian (Bough "C") Completion

List perforated intervals and number of sacks of cement used on any squeeze cementing operations 6475-6500, 6520-50, 8880-95, 9130-40, 9514-24, 9540-46, 9554-62 (New Perfs)  
9588-98 (Old Perfs)

What is depth of the shallowest zone productive of oil or gas in this Pool San Andres, 4800' approx.

What is depth of the deepest zone containing fresh water in this Pool? Surface Sands

Are there any other salt water disposal wells in this Pool using this same zone for injection purposes? Yes If so, list operator, lease and well number

Socony Mobil Oil Company, Inc. Santa Fe "B" No. 1 (Bough "C") and Santa Fe

Pac No. 4 (San Andres - not in use)

What is the approximate volumem of salt water to be injected daily? 10-12,000 bbls.

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Pump

If by pump pressure, give approximate number of pounds per square inch 50-600 psig

Will it be necessary for water to be filtered or chemically treated? Yes

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.

Oil Development Company of Texas, 900 Polk Street, Amarillo, Texas

U. D. Sawyer, Tatum, 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.

Socony Mobil Oil Company, Inc.  
Operator

J. C. Gordon, Jr.  
By Joseph C. Gordon, Jr.  
Production Engineer Supervisor

THE STATE OF NEW MEXICO

COUNTY OF LEA

BEFORE ME, The undersigned authority, on this day personally appeared Joseph C. Gordon, 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  
19 65.

Lita M. Haschelt  
6th day of May

My Commission Expires February 23, 1968

Lita M. Haschelt  
Notary Public in and for Lea  
County, New Mexico

# Santa Fe Pacific Railroad Company

900 Polk Street

A M A R I L L O , T E X A S

Office of Assistant Land Commissioner

May 3, 1965

107-1-SW

Mobil Oil Company  
P. O. Box 1800  
Hobbs, New Mexico 88240

Attention: Mr. George Huff

Gentlemen:

Reference is made to your letter of April 27, 1965, addressed to Oil Development Company of Texas concerning injection of salt water by opening additional zones in the Glorietta, Permo-Penn, Bough "A" and Bough "B" zones in the Socony Mobil No. 1 Santa Fe "E" Well in Section 29, T 9 S, R 36 E, Lea County, New Mexico. This letter contained a waiver to be signed by Oil Development Company of Texas waiving objection to such injection as an offset operator.

Please be advised that Oil Development Company of Texas has plugged and abandoned its offsetting operations and has released its Oil and Gas Lease back to Santa Fe Pacific Railroad Company, thereby having no remaining interest as an offset operator. Oil Development Company of Texas has referred your request to Santa Fe Pacific Railroad Company for pertinent action.

Santa Fe Pacific Railroad Company is the record mineral owner of the mineral estate in all directions from the intended water disposal well, such mineral being unencumbered by Oil and Gas Lease at the present time. Santa Fe Pacific Railroad Company has no objection to injection of oil field waste water through the Glorietta, Permo-Penn, Bough "A" and Bough "B" for salt water disposal through the Socony Mobil No. 1 Santa Fe "E" Well; current injection well for the Cross-roads Salt Water Disposal System. This letter is to be considered a waiver of objection by Santa Fe Pacific Railroad Company for Mobil to open up additional zones in the formations listed and to inject water into these zones. This letter may be presented to the New Mexico Oil Conservation Commission in connection with Mobil's application for this injection.

If we may be of further service in this connection, please do not hesitate to call upon us.

SANTA FE PACIFIC RAILROAD COMPANY

By John C. Major  
Assistant Land Commissioner

JCM:GH

In Duplicate



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

P. O. BOX 1800, HOBBS, NEW MEXICO 88240

April 27, 1965

Mr. V. D. Sawyer  
Tatum, New Mexico

WAIVER OF SURFACE OWNER  
USE OF SWD WELL, SANTA  
FE "E" NO. 1, SEC 29, T-9S  
R-36E, LEA COUNTY, NEW  
MEXICO

Dear Mr. Sawyer:

Socony Mobil Oil Company, Inc. is making application for administrative approval of additional zones of injection for salt water disposal in the subject well. These additional zones are required to handle increasing volumes of salt water and counteract decreasing injection capacity in the present disposal zone.

We would appreciate your signing the waiver below in triplicate and returning two copies for our use in making application to the New Mexico Oil Conservation Commission.

Yours very truly,

Glen W. Barb  
Producing Superintendent

JCGordon, Jr/vvd

### WAIVER OF SURFACE OWNER

I, V. D. Sawyer, as surface owner of Section 29, Township 9 South, Range 36 East, Lea County, New Mexico, hereby waive any objection to the injection into additional zones in the Socony Mobil No. 1 Santa Fe "E" on the described land.

Name V. D. Sawyer

Date 5-4-1965