



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

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

June 17, 1965

Mr. Dan S. Nutter  
Chief Engineer  
New Mex. Oil Conservation Comm.  
P. O. Box 871  
Santa Fe, New Mexico

SOCONY MOBIL OIL COMPANY, INC.'S  
APPLICATION FOR SAN ANDRES SALT  
WATER DISPOSAL WELL, BRUNSON ARGO  
NO. 11, NE/4 OF SECTION 9, T-22-S  
R-37-E, LEA COUNTY, NEW MEXICO

Gentlemen:

Attached is our application to dispose of salt water into the San Andres interval in Brunson Argo No. 11. The 200 barrels of salt water we are proposing to dispose of daily is produced from our E. O. Carson, C. Hardy, H. Corrigan, and Brunson Argo leases in the Eunice Area.

Please note that cement did not circulate on the long casing string. A squeeze cement job has been done at 5000', which protects all zones below the proposed San Andres disposal interval. A squeeze cement job is proposed at a depth of 3930' prior to completing as a San Andres disposal well. This will protect producing zones above the San Andres. The San Andres interval between 3930' and 5000' will be perforated in several porous zones. Disposal will be through 2-3/8" cement lined tubing with a tension packer set at bottom of tubing at approximately 3950'.

Also attached find copies of letters to the offset operators, surface owner, and State Engineer's Office. If any additional information is needed, please advise.

Yours very truly,

Glen W. Barb  
Producing Superintendent

JEBohannon,Jr/vvd  
Attachments: Application  
Plat  
Diagrammatic Sketch  
Letter to: Surface Owner, Operators, & St. Engineer  
Log

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 San Andres County Lea

Operator Socony Mobil Oil Company, Inc.

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

Lease Name Brunson Argo Well No. 11

Depth to top of injection zone 3930'

Depth to base of injection zone 5000'

Size of surface casing 13-3/8" 48# H-40 & 48# F-25

Length of surface casing 1130'

Number of sacks of cement used on surface casing 800 Sx.

Size of long string 5-1/2" 17# J-55

Length of long string 7644'

Number of sacks of cement used on long string 750 Sx.

Size of tubing 2-3/8" Cement Lined Length of tubing 3950'

Depth of tubing packer setting 3950'

Name and model of packer Baker Model "AD" Tension Packer or Equivalent

Is injection through tubing or long string or annulus? Cement Lined Tubing

Is injection through perforations or open hole? Perforations

Was the well drilled for salt water disposal purposes? No

List perforated intervals and number of sacks of cement used on any squeeze cementing operations 2 holes @ 5300' squeezed w/100 Sx; 2 holes @ 5100' squeezed w/100 Sx; 5051' to 5182', Over all - squeezed w/270 Sx.

What is depth of the shallowest zone productive of oil or gas in this Pool Penrose Skelly Pool - base at 3910'

What is depth of the deepest zone containing fresh water in this Pool? 1000'

Are there any other salt water disposal wells in this Pool using this same zone for injection purposes? No If so, list operator, lease and well number

What is the approximate volume of salt water to be injected daily? 200 Bbls/day

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Pump Pressure

If by pump pressure, give approximate number of pounds per square inch 800 psi

Will it be necessary for water to be filtered or chemically treated? No

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.

See Attached Address List

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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

  
By Producing Superintendent

THE STATE OF New Mexico  
COUNTY OF Lea

BEFORE ME, The undersigned authority, on this day personally appeared Glen W. Barb 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 16 day of June 19 65.

My Commission Expires \_\_\_\_\_

  
Notary Public in and for Lea  
County, New Mexico

ADDRESSES OF OFFSET OPERATORS

Ambassador Oil Corporation  
200 Petroleum Building  
Abilene, Texas

Gulf Oil Corporation  
Box 670  
Hobbs, New Mexico

Humble Oil & Refining Company  
Box 2100  
Hobbs, New Mexico

Sinclair Oil & Gas Company  
Box 1920  
Hobbs, New Mexico

Skelly Oil Company  
Box 730  
Hobbs, New Mexico

Sohio Petroleum Company  
Box 3167  
Midland, Texas

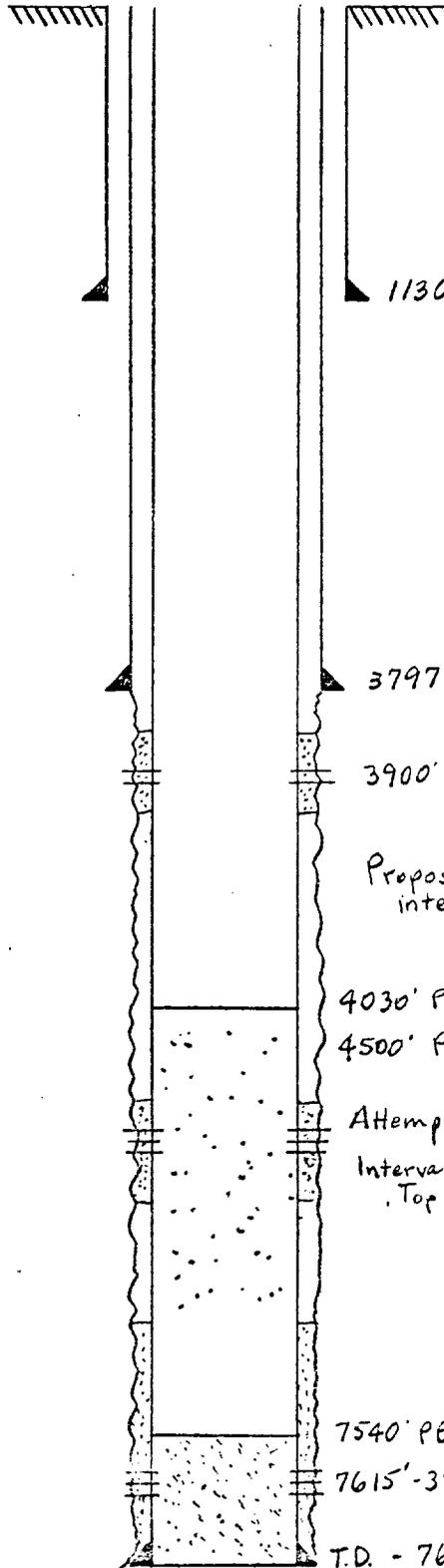
Texas Pacific Oil Company  
Box 1069  
Hobbs, New Mexico

Tidewater Oil Company  
Box 547  
Hobbs, New Mexico

Address of Surface Owner

Mrs. C. G. Moody  
G-3 5 Hadley Street  
South Hadley, Massachusetts

DIAGRAMMATIC SKETCH  
 SOCONY MOBIL OIL COMPANY, INC.'S  
 BRUNSON ARGO No. 11  
 LEA COUNTY, NEW MEXICO



1130' 13<sup>3</sup>/<sub>8</sub>" Casing Cemented w/ 800 sx.  
 Cement Top Unspecified

3797' 8<sup>5</sup>/<sub>8</sub>" Casing Cemented w/ 800 sx.  
 Cement Top Unspecified

3900' Proposed 500 sx. Cement Squeeze Job

Proposed San Andres SWD  
 interval 3950' to 5000'

4030' PBD Present

4500' Proposed PBD

Attempted Completion in Paddock 5000'-5300'  
 Interval has been squeezed w/ 470 sx. cement  
 Top of Cement 1 - 5000'

7540' PBD

7615'-37' Original Perforated Interval

T.D. - 7644' 5<sup>1</sup>/<sub>2</sub>" Casing Cemented w/ 750 sx.  
 Cement Top at 6931'



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

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

June 16, 1965

### LETTER TO OFFSET OPERATORS

Gentlemen:

Socony Mobil Oil Company, Inc. is filing an application with the New Mexico Oil Conservation Commission for permission to use the San Andres interval in their Brunson Argo Well No. 11 for salt water disposal. The location of this well is 731' FNL and 589' FEL of NE/4 of Section 9, Twp 22 South, Rge 37 East, Lea County, New Mexico.

It is our intention to inject water into the San Andres interval through perforations. Enclosed is a sample copy of the application to be submitted to the Commission.

The Oil Conservation Commission will process this application administratively unless a protest is received within 15 days from date of receipt of the application in their Santa Fe office. A hearing will not be required since the San Andres is considered unproductive in the area.

We respectfully request your waivers to this proposal as offset operators to this tract. If you approve, please sign the attached waivers and send one to the New Mexico Oil Conservation Commission in Santa Fe, return one to our Hobbs Office, and keep one for your files if you desire.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Glen W. Barb".

Glen W. Barb  
Producing Superintendent

JEBohannon, Jr/vvd  
Attachments: Waiver

cc: NMOCC, Santa Fe, N. M.



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

June 16, 1965

Mrs. C. G. Moody  
G-3 5 Hadley Street  
South Hadley, Mass.

Dear Madame:

Socony Mobil Oil Company, Inc. is filing an application with the New Mexico Oil Conservation Commission for permission to dispose of salt water into the San Andres interval in their Brunson Argo well #11 located in the NE/4 of Section 9, T-22-S, R-37-E, Lea County, New Mexico. The well is cased and completed so that disposal of salt water into the San Andres interval will not damage fresh water bearing zones whatsoever. Enclosed is a sample copy of the application to be submitted to the Oil Conservation Commission.

The Commission will process this application administratively unless a protest is received within 15 days from date of receipt of the application in their Santa Fe office. A hearing will not be required since the San Andres is considered unproductive of oil or gas in this area.

We respectfully request your waivers to this proposal as the surface owner of this tract. If you approve, please sign the attached waivers and send one to the New Mexico Oil Conservation Commission in Santa Fe, return one to our Hobbs office, and keep one for your files.

Yours very truly,

Original Signed By  
G. W. BARB

JEB Shannon, Jr/vvd  
Attachments: Sample Application

Glen W. Barb  
Producing Superintendent

cc: NMOCC, Santa Fe, N. M.



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

June 16, 1965

Mr. Frank Irby  
State of New Mexico  
State Engineer's Office  
Santa Fe, New Mexico

7.01 SOCONY MOBIL OIL COMPANY,  
INC.'S PROPOSED SAN ANDRES SALT  
WATER DISPOSAL WELL, BRUNSON  
ARGO WELL NO. 11 NE/4 OF SECTION  
9, T-22-S, R-37-E, LEA COUNTY,  
NEW MEXICO

Dear Sir:

This is to advise that Socony Mobil Oil Company, Inc. is filing an application with the New Mexico Oil Conservation Commission for permission to recomplete their Brunson Argo No. 11 as a salt water disposal well. The well location is 731' FNL and 589' FEL of NE/4 of Section 9, T-22-S, R-37-E, Lea County, New Mexico.

It is our intention to dispose of water into the unproductive San Andres interval (3930' to 5000'). Enclosed is a sample copy of the application to be submitted to the Commission.

Yours very truly,

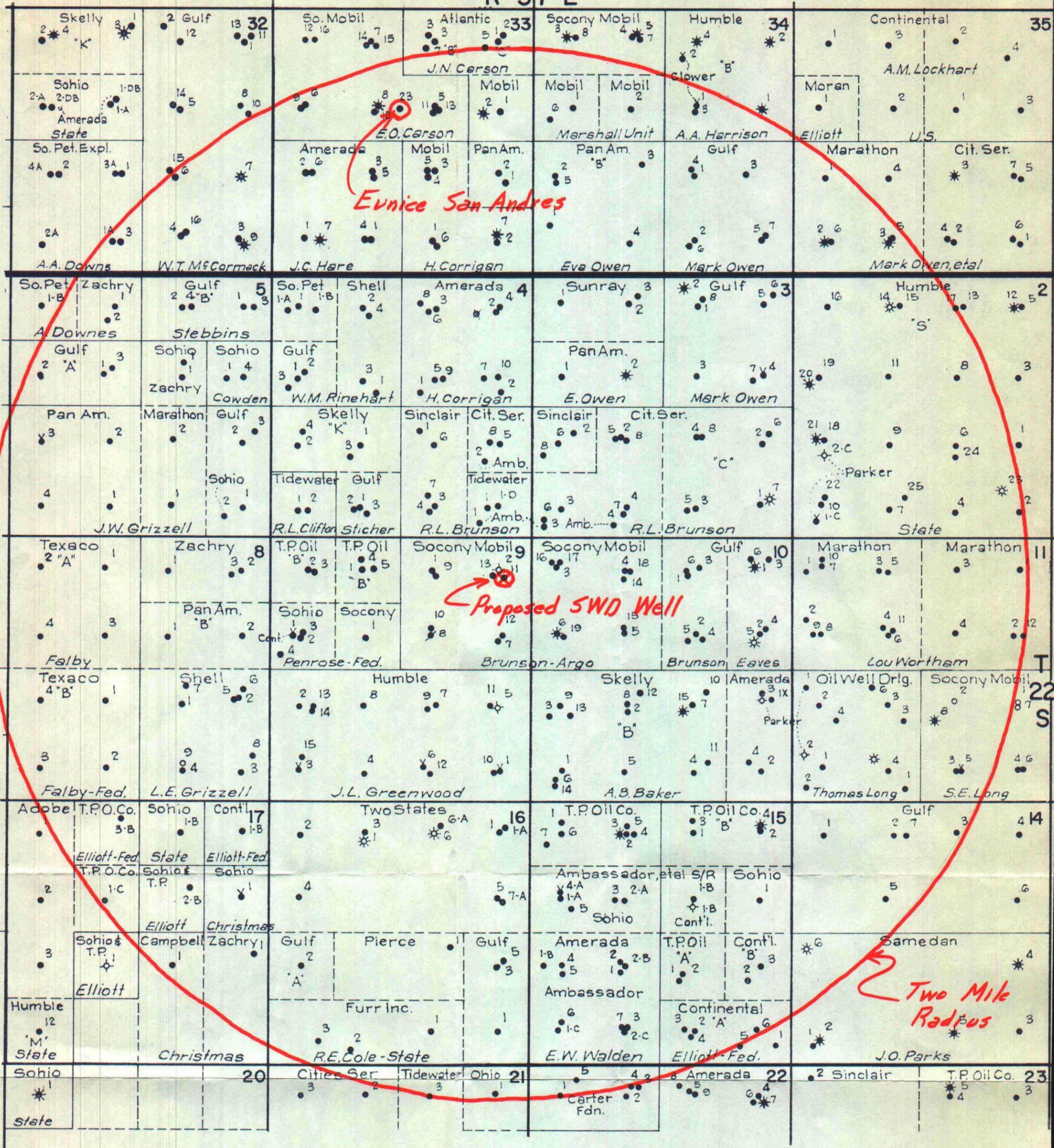
*Original*

G. W. BARB

JEBohannon, Jr/vvd  
Attachment: Sample Application  
cc: NMOCC - Santa Fe, N.M.

Glen W. Barb  
Producing Superintendent

R-37-E



NOTE: Current production zones not shown for surrounding wells due to complexity of the Eunice Area Pools. Proposed SWD well is only one in San Andres except for Socony Mobil No. 23 E. O. Carson, noted.

PLAT OF TWO MILE AREA  
 PROPOSED SWD WELL  
 SOCONY MOBIL NO. 11 BRUNSON-ARGO  
 HOBBS PRODUCING DISTRICT

CTA/JCG/6-15-65

Scale: 1"=2000'



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June 16, 1965

Mr. Dan S. Nutter  
Chief Engineer  
New Mex. Oil Conservation Comm.  
P. O. Box 871  
Santa Fe, New Mexico

SOCONY MOBIL OIL COMPANY, INC.  
PROPOSED SAN ANDRES SALT WATER  
DISPOSAL WELL, BRUNSON ARGO #11  
NE/4 OF SECTION 9, T-22-S, R-37-E  
LEA COUNTY, NEW MEXICO

Dear Sir:

I, the undersigned, as surface owner approve of Socony Mobil's proposal to dispose of salt water into the San Andres interval (3930' to 5000') of their Brunson Argo No. 11, 731' FNL and 589' FEL of NE/4 of Section 9, T-22-S, R-37-E, Lea County, New Mexico.

  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date: \_\_\_\_\_



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

June 16, 1965

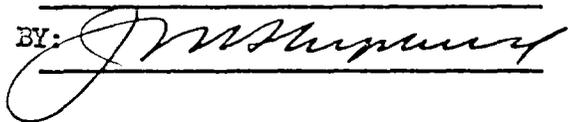
Mr. Dan S. Nutter  
Chief Engineer  
New Mex. Oil Conservation Comm.  
P. O. Box 871  
Santa Fe, New Mexico

SOCONY MOBIL OIL COMPANY, INC.  
PROPOSED SAN ANDRES SALT WATER  
DISPOSAL WELL, BRUNSON ARGO #11  
NE/4 OF SECTION 9, T-22-S, R-37E,  
LEA COUNTY, NEW MEXICO

Dear Sir:

We, the undersigned, as offset operators approve of Socony Mobil's proposal to dispose of salt water into the San Andres interval (3930' to 5000') of their Brunson Argo No. 11, 731' FNL and 589' FEL of NE/4 of Section 9, T-22-S, R-37-E, Lea County, New Mexico.

HUMBLE OIL & REFINING COMPANY

BY:   
\_\_\_\_\_

Date: June 25, 1965

June 30, 1965

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

Attention: Mr. Glen W. Barb  
Producing Superintendent

Socony Mobil Oil Company, Inc.  
Proposed San Andres Salt Water  
Disposal Well, Brunson Argo #11  
Lea County, New Mexico

Gentlemen:

Enclosed please find waiver letter which has been approved by  
Sohio Petroleum Company. As requested in your letter of June 16,  
we sent copy of same to the New Mexico Oil Conservation Commission  
in Santa Fe.

Yours very truly,

SOHIO PETROLEUM COMPANY

Printed Name of  
J. H. Walters

J. H. Walters  
Ass't. District Superintendent

sd  
Attachment

cc: NMOC, Santa Fe, N.M. ← THIS COPY FOR



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.

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

June 16, 1965

Mr. Dan S. Nutter  
Chief Engineer  
New Mex. Oil Conservation Comm.  
P. O. Box 871  
Santa Fe, New Mexico

SOCONY MOBIL OIL COMPANY, INC.  
PROPOSED SAN ANDRES SALT WATER  
DISPOSAL WELL, BRUNSON ARGO #11  
NE/4 OF SECTION 9, T-22-S, R-37E,  
LEA COUNTY, NEW MEXICO

Dear Sir:

We, the undersigned, as offset operators approve of Socony Mobil's proposal to dispose of salt water into the San Andres interval (3930' to 5000') of their Brunson Argo No. 11, 731' FNL and 589' FEL of NE/4 of Section 9, T-22-S, R-37-E, Lea County, New Mexico.

SOHIO PETROLEUM COMPANY

  
J. E. Walters  
Ass't. District Superintendent

Date: June 30, 1965



**Mobil Oil Company**

A Division of Socony Mobil Oil Company, Inc.

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

June 16, 1965

Mr. Dan S. Nutter  
Chief Engineer  
New Mex. Oil Conservation Comm.  
P. O. Box 871  
Santa Fe, New Mexico

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SOCONY MOBIL OIL COMPANY, INC.  
PROPOSED SAN ANDRES SALT WATER  
DISPOSAL WELL, BRUNSON ARGO #11  
NE/4 OF SECTION 9, T-22-S, R-37E,  
LEA COUNTY, NEW MEXICO

Dear Sir:

We, the undersigned, as offset operators approve of Socony Mobil's proposal to dispose of salt water into the San Andres interval (3930' to 5000') of their Brunson Argo No. 11, 731' FNL and 589' FEL of NE/4 of Section 9, T-22-S, R-37-E, Lea County, New Mexico.

*C. L. Wade*

Area Superintendent

Tidewater Oil Company

Date: June 22, 1965



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

June 25, 1965

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

54

Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Comm.  
Santa Fe, N. M.

Dear Mr. Porter:

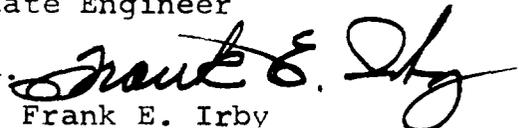
Reference is made to the application of Socony Mobil Oil Company, Inc., proposed San Andres salt water disposal well. The subject well is the Brunson Argo well No. 11 in the NE $\frac{1}{4}$  of Sec. 9, T. 22 S., R. 37 E., Lea County, New Mexico.

This office offers no objection to the granting of this application, provided the well is constructed and equipped in accordance with the diagrammatic sketch dated June 16, 1965 which was submitted with the application.

FEI/ma  
cc-F. H. Hennighausen  
Socony Mobil Oil Co.

Yours truly,

S. E. Reynolds  
State Engineer

By:   
Frank E. Irby  
Chief  
Water Rights Div.