

CASE 4265: Application of UNION  
OIL CO. OF CALIFORNIA FOR SALT  
WATER DISPOSAL, LEA COUNTY.

Case Number

4265

Application

Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6891 • ALBUQUERQUE, NEW MEXICO



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
December 17, 1969  
Santa Fe, New Mexico

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Oil Company  
of California for salt water  
disposal, Lea County, New Mexico.

CASE NO. 4265

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: We'll call Case Number 4265, reactivated.

MR. HATCH: Case 4265, reactivated. Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico.

Mr. Examiner, this case was heard on November 25, 1969, but the disposal interval had been incorrectly advertised. Testimony was given concerning the disposal interval as it now appears in the docket, and I think the case should be submitted to testimony that was presented on November 25.

It was advertised as to 4450 feet and 5890 feet.

MR. NUTTER: Case Number 4265, as originally advertised, was for disposal into the interval from 4450 feet to 5890 feet. At the time of the hearing, evidence was presented that the proposed disposal zone would be 4450 feet to 6067 feet. And the records on that interval was made at the hearing.

Is there any objection to disposal, then, to the subject well into the interval from 4450 feet to 6067 feet?

If there is no objection, we will take the case under advisement and the hearing is adjourned.

STATE OF NEW MEXICO     )  
                                       )  
 COUNTY OF BERNALILLO    )

I, DAVID BINGHAM, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill, and ability.

David Bingham  
 COURT REPORTER

I do hereby certify that the foregoing is a true and correct record of the proceedings in the hearing of Case No. 1265, held by me on 12/17, 1969.  
James, Examiner  
 New Mexico Oil Conservation Commission



dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
November 25, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Oil Company  
of California for salt water  
disposal, Lea County, New Mexico.

Case No. 4265

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 4265.

MR. HATCH: Case 4265. Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico.

MR. RUSSELL: John F. Russell, Roswell, New Mexico, appearing on behalf of the Applicant, and I have one witness, Johnnie Parker.

(Witness sworn.)

MR. UTZ: Any other appearances?

You may proceed.

(Whereupon, Applicant's Exhibits 1 through 5 were marked for identification).

JOHNNIE N. PARKER

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. RUSSELL:

Q Will you please state your name and address, and the name of your employer and the capacity in which you are employed?

A My name is Johnnie N. Parker, I live at 4409 Roosevelt, Midland, Texas, and I'm employed by Union Oil Company of California, in the Midland District Office,

as a reservoir engineer.

Q How long have you been employed by Union Oil of California?

A Over two years.

Q Are you familiar with the area in which this application pertains?

A Yes, I am.

Q Have you previously qualified and given your testimony as a petroleum engineer before the Commission or its examiners?

A No, sir, I haven't.

Q Would you give a brief resume of your educational and professional background?

A I graduated from Texas Technological College in June of 1967, with a Bachelor of Science Degree in petroleum engineering. I've been employed by Union Oil Company of California since that time in various capacities, including production engineer, drilling engineer and petroleum engineer in the reservoir group, in the Midland District Office.

MR. RUSSELL: Are the witness' qualifications acceptable?

MR. UTZ: Yes, they are.



Q (By Mr. Russell) Now, I will refer you to what has been marked as Applicant's Exhibit No. 1, and ask you to tell the Examiner what that shows.

A This is a plat of the area, showing all existing wells, within a two-mile radius of the proposed disposal well.

It also shows the Union Oil Company of California's Midway State No. 1, which is twenty-three hundred ten feet from the west line and twenty-three hundred from the north line, Section 12, of Township 17 South, Range 36 East, in Lea County, New Mexico.

It also shows Union Oil Company of California's Midway State No. 2, Devonian, which is eight hundred and ten feet from the north line, nineteen hundred eighty feet from the east line of Section 12.

Also shown, the proposed injection well, Union Oil Company of California, Midway State No. 3, which is two thousand eighty five feet from the south and east lines of the same Section 12.

Q These first two wells which you have identified are the wells from which you wish to dispose of the produced water: is that correct?

A That's correct.

MR. UTZ: Excuse me a minute. This map says "McBee" -- is that name changed?

THE WITNESS: Yes, sir.

MR. UTZ: So, it's now Midway?

THE WITNESS: Yes, sir.

MR. UTZ: Anything in the McBee Lease is Midway?

THE WITNESS: No, sir -- only the well that I have been referring to in this section -- actually, the No. 1 is shown in the Amerada L. B. Lease.

And the No. 2 is in the William D. McBee "A".

MR. UTZ: And you call the No. 2 a Midway Well?

THE WITNESS: Yes, sir.

MR. UTZ: And the Amerada Well is now called what?

THE WITNESS: Midway State No. 1.

MR. UTZ: All right.

Q (By Mr. Russell) The map also shows the four various formations from which these wells produced; does it not?

A Yes, sir. The producing wells are color coated as to the producing formations.

Q All right. Now, referring to what has been

marked as Applicant's Exhibit No. 2, will you explain that exhibit?

A Exhibit No. 2 is a corrected well bore diagram, showing the proposed injection well. This shows the 11 and 3 quarter inch casing, set at four hundred and thirty-four feet, cemented with three hundred and fifty sacks of cement, which was circulated to the surface.

It also shows the eight and five-eighths casing, set at four thousand four hundred and fifty -- this is a correction from forty-four hundred feet. This was cemented with four hundred sacks of cement.

It also shows various plugs that are in place at the present time, from an interval of six thousand sixty-seven feet, to eleven thousand five hundred and six feet. And from there, to eleven thousand six hundred and thirty-seven feet, as a seven and seven-eighths inch open hole.

Also shown are the proposed depth settings of the tubing and packer. This packer, corrected size -- this shows a two and three-eighths by five-eighths packer, set at approximately forty-three hundred feet.

This is a correction -- the previous exhibit had shown a seven-inch packer. This will have a packer fluid in the tubing casing annulus, and a pressure gauged

surface to detect any leakage.

Q At what depth will the packer be set?

A At approximately forty-three hundred feet.

Q And will you be injecting through the tubing?

A Yes, sir.

Q And it's into open hole interval?

A Yes, sir.

Q How much water do you propose to dispose of into this well? Of what rates?

A The beginning rate will be approximately seventy to eighty barrels per day, with a possible rate of five hundred barrels a day at a later date.

Q Now, do you anticipate that you will be able to inject this water to gravity flow or will it be necessary to inject under pressure?

A Initially, we anticipate the gravity flow, probably, in the future, it will have to be injected under pressure.

Q Now, did you make, in your testament, make any reference to the gauge being installed?

A Yes, sir. There will be a gauge on the tubing casing annulus to detect communication or leakage.

Q All right. I refer you now to what has been

marked as Exhibit 3, Applicant's Exhibit 3, and ask you to identify it?

A This is an electrical log of the proposed injection well, with the formation tops marked on it.

Q And from your examination of the well log, in your opinion, will the open hole formations take the water you propose to inject?

A Yes, sir.

Q And I refer you to what has been marked as Applicant's Exhibit No. 4 and ask you what that is?

A Exhibit No. 4 is a laboratory water analysis of produced water from the Midway State Well No. 2, the Devonian produced water which we propose to dispose in this well.

Q And what formations will it be disposed into?

A It will be disposed primarily in the San Andres -- there is a short section of the Yates open also.

Q Now, you do not have a chemical analysis of the San Andres water: do you?

A No, we have not run a chemical analysis on that.

Q Have you seen some of the chemical analyses run by Skelly?

A Yes, sir.

Q In your opinion, are these two waters compatible?

A Yes, sir.

Q Now, I refer you to what has been marked as Applicant's Exhibit No. 5 and ask you what that is?

A Exhibit No. 5 is a waiver from Skelly Oil Company, giving their approval for water disposal into the San Andres, which is south of the Lovington-Paddock and San Andres Units.

Q Do they operate a large number of wells in this area?

A Yes, they do.

Q What is the unit that they operate?

A The Lovington-San Andres Unit and the Lovington-Paddock Unit -- I believe they operate both of them, yes.

Q Now, were Exhibits 1 through 5 prepared by you or under your supervision and direction?

A Yes.

Q Other than Exhibits 1 through 4?

A Yes, sir. Exhibit No. 1 was supplied by the geology department.

MR. RUSSELL: I move the introduction of Applicant's Exhibits 1 through 5.

MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record of this case.

MR. RUSSELL: I have no further questions on direct examination.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Parker, the nearest San Andres producing wells is up in the section to the north of this location; section what?

A I believe that's Section 1 -- yes, sir, Section 1. That's correct.

Q Which is over a half mile away?

A That's correct.

Q And those wells up there are solution dry wells; are they?

A The San Andres is under waterflood at the present time.

Q Up in that area?

A Yes, sir. That is up in the Lovington-San Andres Unit.

Q So, this well could eventually be a back up for the waterflood; right?

A Yes, sir.

Q Now, you are testifying now that the injection interval is open hole from forty-four fifty to six thousand sixty-seven; is that correct?

A That's correct -- four thousand four hundred and fifty to six thousand sixty-seven.

Q I see now where we got the fifty-eight ninety feet -- that's off your form 108. Would that offer any dire obstacles?

MR. HATCH: We may have to readvertise it -- the injection interval is more wider -- it is more wider than we advertised.

MR. RUSSELL: There were errors on the original application that was submitted, which you are correcting at this time?

THE WITNESS: Yes -- this is in error -- the proposed injection interval is on C 108 -- it shows from forty-four fifty to fifty-eight ninety; it should have shown to six thousand sixty-seven.

MR. UTZ: You made the same filing -- your well bore sketch, at that time, shows six thousand sixty-seven.

Q (By Mr. Utz) Now, did you say that you were going to put inert water in the annulus?



A Yes, sir.

Q And engaged to the surface, I believe?

A That's correct.

Q Is the tubing going to be lined?

A This hasn't been decided one way or the other.

Q I guess we could decide it for you: couldn't we?

A Yes, sir.

Q Water this salty, I think we pretty well set a policy -- of lined tubing.

MR. UTZ: Any other questions of the witness?

The witness may be excused.

(Witness excused).

MR. UTZ: Statements in this case? The case will be taken under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
JOHNNIE N. PARKER	
Direct Examination by Mr. Russell	2
Cross Examination by Mr. Utz	10

E X H I B I T S

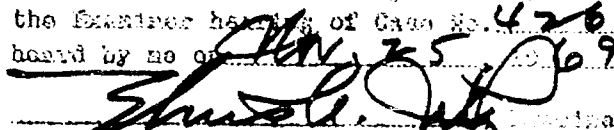
Applicant's Exhibits	
1 through 5	2

STATE OF NEW MEXICO   )  
                                   ) ss  
 COUNTY OF BERNALILLO   ))

I, CA FENLEY, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.



Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Bernalillo hearing of Case No. 4265 heard by me on Nov. 25, 1969.  
  
 Shushe, Secretary  
 New Mexico Oil Conservation Commission



BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 4265  
Order No. R-3897

APPLICATION OF UNION OIL COMPANY  
OF CALIFORNIA FOR SALT WATER DIS-  
POSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:30 a.m. on December 17, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Mutter.

NOW, on this 18th day of December, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Union Oil Company of California, is the owner and operator of the Midway State Well No. 3, located in Unit J of Section 12, Township 17 South, Range 36 East, NMPM, Lovington Field, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Yates and San Andres formations, with injection into the open-hole interval from approximately 4450 feet to 6067 feet.

(4) That the injection should be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 4300 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be

-2-

CASE No. 4265  
Order No. R-3897

attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Union Oil Company of California, is hereby authorized to utilize its Midway State Well No. 3, located in Unit J of Section 12, Township 17 South, Range 36 East, NMPM, Lovington Field, Lea County, New Mexico, to dispose of produced salt water into the Yates and San Andres formations, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 4300 feet, with injection into the open-hole interval from approximately 4450 feet to 6067 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

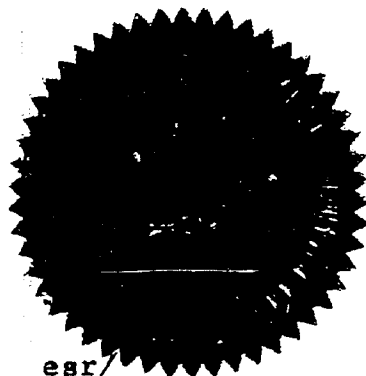
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

  
ALEX J. ARMIÑO, Member

A. L. PORTER, Jr., Member & Secretary



Case 4265

Heard 11-25-69

Rec. 11-26-69.

Grant. Union of Cal. permission  
to convert this Midway St.  
#3. J - 12 - 17 S - 36 E, Longfellow  
field to a SWD well. This well  
is a P.B. from a dev. dry hole.  
Injection to be thru  $2\frac{3}{4}$ " Plastic  
coated tubing under a packed set  
at approx. 4300' + into open hole  
in the Yates + SA. fm. from  
4450 to 6067. A pressure gauge  
shall be used + annulus surface  
+ filled with inert fluid.

Thos. H. [Signature]

Readvertise

Union Oil Company of California

500 N. Marienfeld, Midland, Texas 79701  
Telephone (915) MU 2-9731

NOV 1 1969

**UNION**

Midland District

October 29, 1969

*Page 4265*

Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

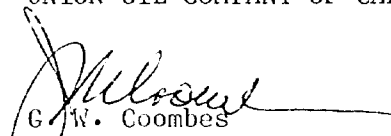
Midway State No. 3  
2085 FSL, 2085 FEL, Sec. 12, 14-S, 36-E  
Lovington Devonian Field  
Lea County, New Mexico

Enclosed are copies of Form C-108, "Application to Dispose of Salt Water by Injection into a Porous Formation", and other necessary data to support Union's request to dispose of salt water in the San Andres formation of the above captioned well.

Requests for waivers and a copy of this application have been submitted to the State Engineer, the New Mexico State Land Office, and the offset operators.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

  
G. W. Coombes  
District Operations Manager

JNP:rb  
Enclosures

DOCKET MAILED

Date 11-14-69

*4 to Jack Russell*

DOCKET MAILED

Date 12-5-69



Union Oil Company of California

500 N. Marienfeld, Midland, Texas 79701

Telephone (915) MU 2-9731



*Case 4265*

Midland District

October 29, 1969

Amerada Hess Corporation

P. O. Box 591

Midland, Texas 79701

Gentlemen:

Union Oil Company of California is making application to the New Mexico Oil Conservation Commission to dispose of salt water by injection into the San Andres interval of their Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico.

If you have no objection to the above application we would appreciate your executing the attached waiver and returning one copy to us at your earliest convenience.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "G. W. Coombes".

G. W. Coombes

District Operations Manager

JNP:rb  
Attach.

Union Oil Company of California

500 N. Marientfeld, Midland, Texas 79701  
Telephone (915) MU 2-9731

*Case 4265*



Midland District

October 29, 1969

Sun Oil Company  
500 Vaughn Building  
Midland, Texas 79701

Gentlemen:

Union Oil Company of California is making application to the New Mexico Oil Conservation Commission to dispose of salt water by injection into the San Andres formation of their Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico.

If you have no objection to the above application we would appreciate your executing the attached waiver and returning one copy to us at your earliest convenience.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in dark ink, appearing to read "G. W. Coombes".  
G. W. Coombes  
District Operations Manager

JNP:rb  
Attach.

Union Oil Company of California

500 N. Marienfeld, Midland, Texas 79701  
Telephone (915) MU 2-9731



*Case 4265*

Midland District

October 29, 1969

McBee Oil Company  
1305 Dallas Federal Savings Building  
Dallas, Texas

Gentlemen:

Union Oil Company of California is making application to the New Mexico Oil Conservation Commission to dispose of salt water by injection into the San Andres formation of their Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico.

If you have no objection to the above application we would appreciate your executing the attached waiver and returning one copy to us at your earliest convenience.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in dark ink, appearing to read "G. W. Coombes", written over a horizontal line.

G. W. Coombes  
District Operations Manager

JNP:rb

Attach.

P.S. An AFE covering this work has been submitted for your approval.

DOCKET: EXAMINER HEARING - WEDNESDAY - DECEMBER 17, 1969

9:30 A. M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or  
Elvis A. Utz, Alternate Examiner:

CASE 4276: Application of Humble Oil & Refining Company for a special  
gas-oil ratio limitation, Lea County, New Mexico. Applicant,  
in the above-styled cause, seeks an exception to Rule 506 of  
the Commission Rules and Regulations to provide for a limiting  
gas-oil ratio of 6,000 cubic feet of gas per barrel of oil in  
the Oil Center-Blinbry Pool, Lea County, New Mexico.

CASE 4277: Application of Pan American Petroleum Corporation for two un-  
orthodox gas well locations, Rio Arriba County, New Mexico.  
Applicant, in the above-styled cause, seeks approval of two  
unorthodox gas well locations in Township 26 North, Range 4  
West, Blanco-Mesaverde Gas Pool, Rio Arriba County, New Mexico,  
as follows:

Jicarilla Apache 102 Well No. 15 located  
790 feet from the South line and 1190 feet  
from the East line of Section 9;

Jicarilla Apache 102 Well No. 16 located 1070  
feet from the South line and 1450 feet from  
the East line of Section 10.

CASE 3455: (Reopened) Continued from the November 5, 1969 Examiner  
Hearing

in the matter of Case No. 3455 being reopened pursuant to the  
provisions of Order No. R-2565-B, which order, among other  
things, established 320-acre spacing units for the West Puerto  
Chiquito-Mancos Oil Pool, Rio Arriba County, New Mexico, for  
a period of three years. All interested parties may appear  
and show cause why said pool should not be developed on 40-acre  
spacing units.

CASE 4257: (Continued from the November 19, 1969 Regular Hearing)

Application of Sohio Petroleum Company for salt water disposal,  
Lea County, New Mexico. Applicant, in the above-styled cause,  
seeks authority to dispose of produced salt water into the  
San Andres formation in the open-hole interval from 4920 feet  
to 4995 feet in its Phillips Lea SWD Well No. 4 located in  
Unit M of Section 31, Township 17 South, Range 34 East, Vacuum  
Grayburg-San Andres Pool, Lea County, New Mexico.

CASE 4263: (Continued from the November 25, 1969 Examiner Hearing)

Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "E" Well No. 3, to be located 590 feet from the South line and 1590 feet from the West line of Section 13, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.

CASE 4264: (Continued from the November 25, 1969, Examiner Hearing)

Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "J" Well No. 1, to be located 2390 feet from the South line and 2410 feet from the East line of Section 11, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.

CASE 4278: Application of Anne Burnett Windfohr, dba Windfohr Oil Company, for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Gissler B Wells Nos. 11 and 12, located, respectively, in Units J and I of Section 23, Township 17 South, Range 30 East, Jackson-Abo Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said wells in unlined surface pits in the vicinity of said wells.

CASE 4279: Application of Anne Burnett Windfohr, dba Windfohr Oil Company, for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Gissler B Well No. 4 located in Unit B of Section 8, Township 17 South, Range 30 East, Grayburg-Jackson Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit in the vicinity of said well.

- CASE 4280: Application of J. M. Huber Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Lower Wolfcamp formation in the perforated interval from 10,358 feet to 10,419 feet in its Stoltz State Well No. 1 located in Unit M of Section 6, Township 15 South, Range 35 East, Morton-Wolfcamp Pool, Lea County, New Mexico.
- CASE 4281: Application of Continental Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its SEMU Well No. 21 located in Unit O of Section 19, Township 20 South, Range 38 East, Lea County, New Mexico, in such a manner as to produce oil from an undesignated Blinebry oil pool and gas from an undesignated Drinkard gas pool through parallel strings of tubing.
- CASE 4282: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the East E-K Unit Area by the injection of water into the upper Queen formation through two wells located in Units N and P of Section 22, Township 18 South, Range 34 East, East E-K Queen Pool, Lea County, New Mexico.
- CASE 4283: Application of Continental Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the East E-K Unit Area comprising 400 acres, more or less, of state lands described as the NW/4, E/2 SW/4 and SE/4 of Section 22, Township 18 South, Range 34 East, East E-K Queen Pool, Lea County, New Mexico.
- CASE 4284: Application of Continental Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in its Springs SWD Wells No. 1 and 2, located in Unit F of Section 3 and Unit A of Section 4, respectively, Township 21 South, Range 25 East, Springs-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico. Disposal into Well No. 1 would be into the Bone Springs Wolfcamp and Upper Pennsylvanian formations in the openhole interval from 2700 feet to 8350 feet. Disposal into Well No. 2 would be into the Upper Pennsylvanian formation in the perforated interval from 8200 feet to 8400 feet.

CASE 4265: (Readvertised):

Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates, San Andres and other formations in the open-hole interval from approximately 4450 feet to 6067 feet in its Midway State Well No. 3 located in Unit J, Section 12, Township 17 South, Range 36 East, Lovington Field, Lea County, New Mexico.

CASE 4285: Application of Southwestern Natural Gas Inc., for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the special rules and regulations governing the North Osudo-Morrow Gas Pool to permit the drilling of a well at an unorthodox gas well location 1980 feet from the South line and 660 feet from the East line of Section 19, Township 20 South, Range 36 East, Lea County, New Mexico.

Union Oil Company of California

500 N. Marienfeld, Midland, Texas 79701

Telephone (915) MU 2-9731

*Case 4265*



Midland District

October 29, 1969

Commissioner of Public Lands  
State of New Mexico  
State Land Office  
Santa Fe, New Mexico

Gentlemen:

Attached for your information is a copy of Union Oil Company of California's application to the New Mexico Oil Conservation Commission to dispose of salt water by injection into the San Andres formation of their Midway State Well No. 3, Lovington Devonian Field, Lea County, New Mexico.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in dark ink, appearing to read "G. W. Coombes".

G. W. Coombes  
District Operations Manager

JNP:rb  
Attachment



Union Oil Company of California

500 N. Marienfeld, Midland, Texas 79701  
Telephone (915) MU 2-9731

NOV 1 1969

**UNION**

*Case 4265*

Midland District

October 29, 1969

Mr. D. S. Nutter  
Chief Engineer  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Nutter:

Union Oil Company of California is making application to the New Mexico Oil Conservation Commission to dispose of salt water by injection into their Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico.

If you have no objection to this application, please return one executed copy of the attached waiver to this office at your earliest convenience.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

*G. W. Coombes*  
G. W. Coombes  
District Operations Manager

JNP:rb  
Attachments

NOTE: DUE TO THE THANKSGIVING HOLIDAY, THIS HEARING IS SCHEDULED FOR TUESDAY RATHER THAN WEDNESDAY AS CUSTOMARY.

Docket No. 32-69

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 25, 1969

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

- CASE 4259: Application of Aztec Oil & Gas Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 5112 feet to 5138 feet in its State "SS" Well No. 1 located in Unit F of Section 24, Township 17 South, Range 36 East, Spencer-San Andres Pool, Lea County, New Mexico.
- CASE 4260: Application of Tamarack Petroleum Company, Inc. for a water-flood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Northeast Pearl Queen Unit Waterflood Project, Pearl-Queen Pool, by the conversion to water injection one additional injection well, its Unit Well No. 18, located in Unit L of Section 23, Township 19 South, Range 35 East, Lea County, New Mexico.
- CASE 4261: Application of Pennzoil United, Inc., for special pool rules and unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Quail Ridge-Morrow Gas Pool, Lea County, New Mexico, including a provision for 320-acre spacing units. Applicant further seeks approval of the unorthodox location in said pool for its Mescalero Ridge Well No. 1 at a location 660 feet from the South line and 660 feet from the West line of Section 20, Township 19 South, Range 34 East.
- CASE 4262: Application of Plains Radio Broadcasting Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for the applicant's White Ranch Well No. 1 located in Unit E of Section 34, Township 11 South, Range 29 East, White Ranch Siluro-Devonian Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt

water produced by said well in an unlined surface pit located in the vicinity of said well. In the alternative, applicant seeks authority to dispose of said produced water into the Siluro-Devonian formation in the perforated interval from 8743 feet to 8750 feet in its White Ranch Well No. 3 located in Unit M of said Section 34.

CASE 4263: Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "E" Well No. 3, to be located 590 feet from the South line and 1590 feet from the West line of Section 13, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.

CASE 4264: Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "J" Well No. 1, to be located 2390 feet from the South line and 2410 feet from the East line of Section 11, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.

CASE 4265: Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates, San Andres and other formations in the open-hole interval from approximately 4450 feet to 5990 feet in its Midway State Well No. 3 located in Unit J, Section 12, Township 17 South, Range 36 East, Lovington Field, Lea County, New Mexico.

CASE 4245: (Continued from the November 5, 1969, Examiner Hearing) Application of Texas Pacific Oil Company, Inc., for several non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the dedication and rededication of certain acreage and the establishment of the following non-standard gas proration units in Townships 22 and 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico:

(Case 4245 continued)

A 160-acre unit comprising the W/2 SE/4 and the E/2 SW/4 of Section 8, Township 22 South, Range 36 East, to be dedicated to the State "A" a/c-2 Well No. 56 located in Unit J of said Section 8;

A 200-acre unit comprising the NW/4 and the NW/4 SW/4 of Section 11, Township 22 South, Range 36 East, to be dedicated to the State "A" a/c-2 Well No. 42 located in Unit E of said Section 11;

A 280-acre unit comprising the SE/4, S/2 SW/4, and the NE/4 SW/4 of Section 11, Township 22 South, Range 36 East, to be dedicated to the State "A" a/c-2 Well No. 36 located in Unit M of said Section 11;

A 200-acre unit comprising the N/2 NE/4, the SE/4 NE/4, and the NE/4 NW/4 of Section 15 and the SE/4 SW/4 of Section 10, Township 23 South, Range 36 East, to be dedicated to the State "A" a/c-1 Well No. 31 located in Unit H of said Section 15;

A 160-acre unit comprising the S/2 NW/4, SW/4 NE/4 and the NW/4 NW/4 of Section 15, Township 23 South, Range 36 East, to be dedicated to the State "A" a/c-1 Well No. 33 located in Unit F of said Section 15;

A 240-acre unit comprising the SW/4 of Section 3, and the N/2 NW/4 of Section 10, Township 23 South, Range 36 East, to be dedicated to the State "A" a/c-1 Well No. 35 located in Unit I of said Section 3;

A 160-acre unit comprising the S/2 NW/4 and N/2 SW/4 of Section 10, Township 23 South, Range 36 East, to be dedicated to the State "A" a/c-1 Well No. 37 located in Unit F of said Section 10.

CASE 4266: Application of Texas Pacific Oil Company, Inc., for several non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the dedication and rededication of certain acreage and the establishment of the following non-standard gas proration units in Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico:

-4-

(Case 4266 continued)

A 280-acre unit comprising the SW/4 of Section 9 and the E/2 SE/4 and SW/4 SE/4 of Section 8 to be dedicated to the State "A" a/c-2 Well No. 38 located in Unit K of said Section 9;

A 160-acre unit comprising the E/2 SW/4, SW/4 SW/4 and NW/4 SE/4 of Section 8 to be dedicated to the State "A" a/c-2 Well No. 56 located in Unit J of said Section 8;

A 120-acre unit comprising the S/2 NW/4 and NW/4 SW/4 of Section 8 to be dedicated to the State "A" a/c-2 Well No. 51 located in Unit F of said Section 8;

A 160-acre unit comprising the SW/4 of Section 5 to be dedicated to the State "A" a/c-2 Well No. 41 located in Unit M of said Section 5;

A 160-acre unit comprising the NW/4 of Section 5 to be dedicated to the State "A" a/c-2 Well No. 44 located in Unit F of said Section 5;

A 160-acre unit comprising the SE/4 of Section 5 to be dedicated to the State "A" a/c-2 Well No. 27 located in Unit P of said Section 5.

CASE 4267: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Edward M. Kriss and all other interested parties to appear and show cause why the Edward M. Kriss Little Chama Valley Company Well No. 1, a wildcat well, located 545 feet from the North line and 1530 feet from the West line of Section 2, Township 1 North, Range 2 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 4268: Application of Texaco Inc., for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the State "JD" Unit Area comprising 160 acres, more or less, of State lands in the NW/4 of Section 27, Township 26 South, Range 37 East, Rhodes (Yates-Seven Rivers) Pool, Lea County, New Mexico.

- CASE 4269: Application of Texaco Inc. for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its State "JD" Unit Area by the injection of water into the Yates-Seven Rivers formations through two wells located in Unit D and Unit F of Section 27, Township 26 South, Range 37 East, Rhodes (Yates-Seven Rivers) Pool, Lea County, New Mexico.
- CASE 4270: Application of Byron McKnight for an exception to Order No. R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the potash-oil area casing and cementing rules as set forth in Commission Order No. R-111-A. Applicant proposes to drill to a depth of approximately 3800 feet in the Yates formation two exploratory wells located in the SW/4 NE/4 and SE/4 NE/4 of Section 26, Township 19 South, Range 33 East, Lea County, New Mexico, in such a manner as to eliminate the necessity of running the salt protection string required by said Order No. R-111-A provided the production string would be cemented to the surface.
- CASE 4271: Application of Texaco Inc. for a waterflood expansion and amendment of Order No. R-2748, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its waterflood project in the Rhodes (Yates-Seven Rivers) Pool, authorized by Order No. R-2748, by the injection of water through four additional wells in Sections 22 and 27 of Township 26 South, Range 37 East, Lea County, New Mexico. Applicant further seeks amendment of said order to establish a procedure whereby additional injection wells as may be necessary to complete an efficient injection pattern may be approved administratively.
- CASE 4272: Application of Shell Oil Company for an unorthodox oil well location and to directionally drill, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Sanger Well No. 6 at an unorthodox surface location in Unit E 1490 feet from the North line and 330 feet from the West line of Section 27, Township 28 South, Range 38 East, Hobbs (Grayburg-San Andres) Pool, Lea County, New Mexico. Applicant further seeks authority to directionally drill said well in such a manner as to bottom the well in the subject pool at a point in Unit D of said Section 27 approximately 200 feet north of said surface location. Applicant proposes to dedicate said Unit D to the well.

November 25, 1969 - Examiner Hearing

Booklet No. 32-69

-6-

CASE 4273: Application of Tesoro Petroleum Corporation for an unorthodox oil well location and amendment of Order No. R-2807-A, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox oil well location of its Well No. 59, formerly classified as a water injection well, located 1430 feet from the South line and 2625 feet from the East line of Section 36, Township 18 North, Range 9 West, Hospah Upper Sand Oil Pool, McKinley County, New Mexico. Applicant further seeks the amendment of Order No. R-2807-A to permit a procedure whereby additional producing and injection wells in its Hospah Unit Area may be approved administratively.

CASE 4274: Application of Pan American Petroleum Corporation for an unorthodox oil well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Navajo Tribal "N" Well No. 11 at an unorthodox location 1150 feet from the West line and 560 feet from the North line of Section 17, Township 26 North, Range 18 West, Tocito Dome-Pennsylvanian "D" Oil Pool, San Juan County, New Mexico.

Union Oil Company of California

500 N. Marienfeld, Midland, Texas 79701

Telephone (915) MU 2-9731

NOV 10 1969

**UNION**

Case 4265

Midland District

November 7, 1969

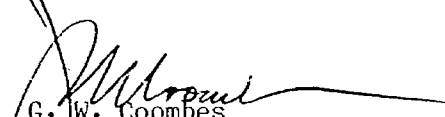
Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Enclosed are waivers from all offset operators in regard to salt water disposal into our Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico. These are submitted in support of our application of October 28, 1969.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

  
G. W. Coombes  
District Operations Manager

JNP:rb  
Attachments

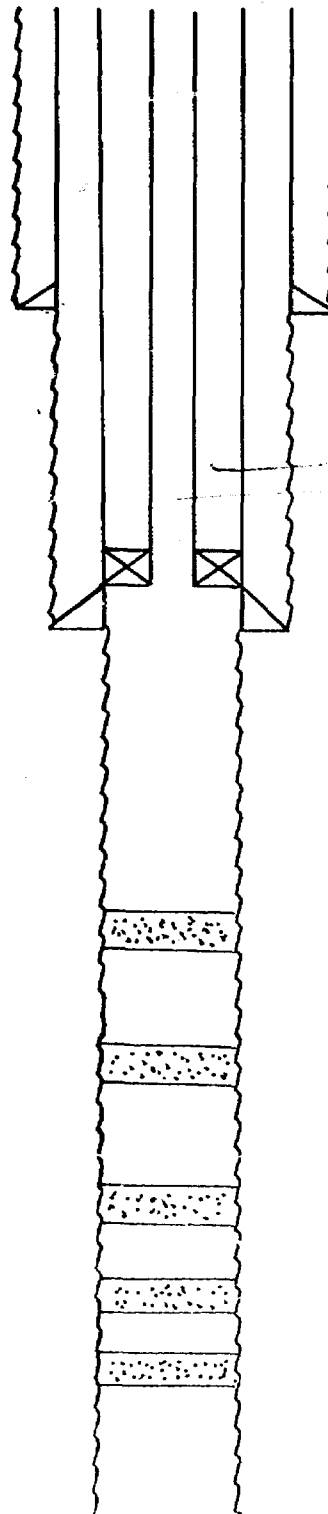


MIDWAY STATE NO. 3  
LOVINGTON DEVONIAN FIELD

ELEVATION:

DF = 3833'

GL = 3817'



11 3/4" CASING SET AT 434' W/ 350SXS.  
(CEMENT CIRCULATED)

2 3/8" x 8 5/8" PACKER AT 4300'

8 5/8" CASING SET AT 4450' W/ 400SXS.  
CEMENT.

4450 - 6067

PLUG NO. 5 = 50SXS. (6067' - 6200')

PLUG NO. 4 = 25SXS. (8080' - 8140')

PLUG NO. 3 = 25SXS. (9188' - 9262')

PLUG NO. 2 = 25SXS. (10,310' - 10,384')

PLUG NO. 1 = 50SXS. (11,340' - 11,506')

7 7/8" OPEN HOLE

TD = 11,637'

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 2

CASE NO. 4265

1342-A

*Midland*

HALLIBURTON DIVISION LABORATORY  
HALLIBURTON COMPANY  
MIDLAND DIVISION

## LABORATORY WATER ANALYSIS

No. W1-121-69To Union Oil Company of CaliforniaDate March 18, 1969210 East Avenue "O"Lovington, New Mexico 88260

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_

Date Rec. 3-14-69Well No. Midway St. #2

Depth \_\_\_\_\_

Formation DevonianCounty LeaField So. Lovington

Source \_\_\_\_\_

Resistivity .233 @ 69 FSpecific Gravity 1.019pH 6.2Calcium (Ca) 2,100

\*MPL

Magnesium (Mg) 780Chlorides (Cl) 17,500Sulfates (SO<sub>4</sub>) 560Bicarbonates (HCO<sub>3</sub>) 185Soluble Iron (Fe) 5

Remarks:

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Copy EXHIBIT NO. 4CASE NO. 7265

\*Milligrams per liter

Respectfully submitted,

Analyst: Frank Whitfield

cc:

HALLIBURTON COMPANY

By Frank Whitfield

DIVISION CHEMIST

## NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

W A I V E R

We are aware of Union Oil Company of California's application to the New Mexico Oil Conservation Commission for permission to dispose of salt water by injection into the San Andres formation of their Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico, and have no objection to said application.

SKELLY OIL COMPANY

By Quadra B. Casey

Date 11-19-69

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
<u>Casey</u>	EXHIBIT NO. <u>5</u>
CASE NO. <u>4265</u>	

440  
H. H.  
JMP

H.R.W.  
NOV 5 1969

W A I V E R

As offset operator to Union Oil Company of California's Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico, we hereby waive objection to their application to dispose of salt water by injection into the San Andres formation of said well.

Amerada Division  
Amerada Hess Corporation  
Company

B. J. Liny  
By

Date

H.R.W.  
NOV 4 1969

W A I V E R

As offset operator to Union Oil Company of California's Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico, we hereby waive objection to their application to dispose of salt water by injection into the San Andres formation of said well.

\_\_\_\_\_  
Company

W. D. McBeck  
By

Oct 31 1969  
Date

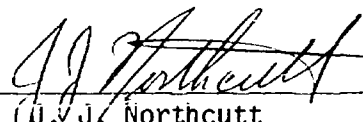
NOV 10 1969

W A I V E R

As offset operator to Union Oil Company of California's Midway State No. 3 well, Lovington Devonian Field, Lea County, New Mexico, we hereby waive objection to their application to dispose of salt water by injection into the San Andres formation of said well.

SUN OIL COMPANY - DX DIVISION

Company

  
By J. J. Northcutt  
Division Engineer

November 3, 1969  
Date

## NEW MEXICO OIL CONSERVATION COMMISSION

## APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Union Oil Company of California		ADDRESS P. O. Box 671, Midland, Texas 79701			
LEASE NAME Midway State	WELL NO. 3	FIELD Lovington Devonian	COUNTY Lea		
LOCATION UNIT LETTER <u>J</u> ; WELL IS LOCATED <u>2085</u> FEET FROM THE <u>South</u> LINE AND <u>2085</u> FEET FROM THE <u>East</u> LINE, SECTION <u>12</u> TOWNSHIP <u>17-S</u> RANGE <u>36-E</u> NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	11 3/4"	434'	350	Surface	Circulation
INTERMEDIATE	8 5/8"	4450'	400	1500'	Calculation
LONG STRING					
TUBING	2 3/8"	4300'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lokset @ 4300'		
NAME OF PROPOSED INJECTION FORMATION Yates and San Andres		TOP OF FORMATION 3065'		BOTTOM OF FORMATION 6203'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Open hole		PROPOSED INTERVAL(S) OF INJECTION 4450'-5890'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Devonian oil well		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					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 6450'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 80 BWPd	MAXIMUM 500 BWPd	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 500 psi
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Scharbauer Cattle Company, 111 South Loraine, Midland, Texas 79701					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
McBee Oil Company, 1305 Dallas Federal Savings Building, Dallas, Texas					
Amerada Hess Corporation, P. O. Box 591, Midland, Texas					
Sun Oil Company, 500 Vaughn Building, Midland, Texas, Attn: Elton Ramsey					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				THE NEW MEXICO STATE ENGINEER Yes	
				DIAGRAMMATIC SKETCH OF WELL Yes	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

*J. N. Parker*  
J. N. Parker (Signature)

Petroleum Engineer  
(Title)

October 28, 1969  
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

DRAFT

GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 4265

Order No. R-3897

APPLICATION OF UNION OIL COMPANY  
OF CALIFORNIA FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

9:30

This cause came on for hearing at 9 a.m. on December 17, 196<sup>9</sup>,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this Dec day of Dec, 196<sup>9</sup>, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Union Oil Company of California,  
is the owner and operator of the Midway State Well No. 3,  
located in Unit J of Section 12, Township 17 South, Range  
36 East, NMPM, Lovington Field, Lea  
County, New Mexico.

(3) That the applicant proposes to utilize said well to  
dispose of produced salt water into the Yates and  
San Andres and other  
formations, with injection into the open-hole interval  
from approximately 4450 feet to 6067  
~~5890~~ feet.

(4) That the injection should be accomplished through  
2 3/8-inch plastic-lined tubing installed in a packer set at



approximately 4300 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Union Oil Company of California, is hereby authorized to utilize its Midway State Well No. 3 located in Unit J of Section 12, Township 17 South, Range 36 East, NMPM, Lovington Field, Lea County, New Mexico, to dispose of produced salt water into the Yates and ~~San Andres and other~~ formations, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 4300 feet, with injection into the open-hole interval from approximately 4450 feet to 6067 ~~5890~~ feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

CASE 4266: Application of TEXAS  
PACIFIC OIL CO. FOR SEVERAL NON-  
STANDARD GAS PRORATION UNITS.