

SWD - 30

*Autograph*  
*Here under Oct 23*

# Union Oil Company of California

M I D L A N D T E X October 4, 1961

Gulf Oil Corporation  
P. O. Box 1150  
Midland, Texas

Phillips Petroleum Company  
Permian Building  
Midland, Texas

Humble Oil & Refining Company  
P. O. Box 1600  
Midland, Texas

Texaco, Incorporated  
P. O. Box 3109  
Midland, Texas

Mobil Oil Company  
P. O. Box 633  
Midland, Texas

Texas Pacific Coal & Oil Company  
P. O. Box 4067  
Midland, Texas

Gentlemen:

In our letter of June 21, 1961, you were advised of our filing an application to use the San Andres zone in our State BH Well No. 1. for salt water disposal purposes, this well being located 990 feet from the south and 330 feet from the east lines of Section 32, Township 15-S, Range 32-E, Lea County, New Mexico. Our application was approved by Administrative Order SWD No. 28.

As the San Andres zone is not adequate for our injection requirements we are filing an application to include the Yates interval of 2550 feet to 2800 feet in this well for salt water disposal purposes. A copy of our application is enclosed.

We have enclosed in triplicate a letter to the New Mexico Oil Conservation Commission waiving your company's objection to our application. If this waiver meets with your approval, please execute two copies, forwarding one to the New Mexico Oil Conservation Commission, Santa Fe, New Mexico, and one to our Midland office in the enclosed envelopes. The remaining copy is for your files.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

  
G. W. Coomes

Division Production Superintendent

PW:bg

CC: New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

\_\_\_\_\_ hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

\_\_\_\_\_  
By: \_\_\_\_\_

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 Union Oil Company of California Address 619 W. Texas Ave., Midland, Texas

Lease State "BH" Well No. 1 County Lea

Unit P Section 32 Township 15-S Range 32-E

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

Anderson Ranch Wolfcamp and Devonian Pools.

Name of Injection Formation(s): Yates

Top of injection zone: 2550' Bottom of injection zone: 2800'

Give operator, lease, well no., and location of any other well in this area using this same zone for disposal purposes: None Known

CASING PROGRAM

|              | Diameter | Setting Depth | Sacks Cement     | Top of Cement     |
|--------------|----------|---------------|------------------|-------------------|
| Surface      | 13-3/8"  | 631'          | 700 sx. 4% Gel.  | Cmt'd. to surface |
| Intermediate | 8-5/8"   | 4150'         | 350 sx. 8% Gel.  | 2500'             |
| Long String  | 5-1/2"   | *6925-10,011' | 275 sx. 12% Gel. | 7800'             |

\*Note: 5-1/2" casing recovered above 6925'.

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

Size tubing: 2" EUE Setting depth: 2650' Packer set at: 2620'

Name and Model No. of packer: Guiberson tension packer

Will injection be through perforations or open hole? Perforations

Proposed interval(s) of injection: 2664-2676' and 2680-2695'

Well was originally drilled for what purpose? Oil Well

Has well ever been perforated in any zone other than the proposed injection zone? Yes

List all such perforated intervals and sacks of cement used to seal off or squeeze each:

See attached

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

Give depth of top of next lower zone which produces oil or gas: 9950' (Wolfcamp)

Give depth of bottom of deepest fresh water zone in area: 330'

Expected volume of salt water to be injected daily (barrels): 360

Will injection be by gravity or pump pressure? gravity Estimated pressure: 0

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

The San Andres zone (4170-5530') in this well is open for salt water injection purposes under authority of Administrative Order SWD No. 28.

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

Gulf Oil Corporation, P. O. Box 1150, Midland, Texas

Humble Oil & Refining Company, P. O. Box 1600, Midland, Texas

Mobil Oil Company, P. O. Box 633, Midland, Texas

Phillips Petroleum Company, Permian Building, Midland, Texas

Texaco, Incorporated, P. O. Box 3109, Midland, Texas

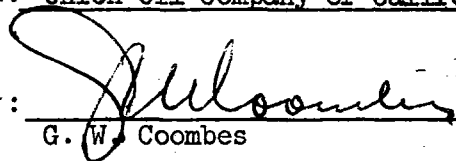
Texas & Pacific Coal & Oil Company, P. O. Box 4067, Midland, Texas

Name and address of surface owner State Land

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: Union Oil Company of California

By:   
G. W. Coombes

Title: Division Production Superintendent

STATE OF Texas )  
County of Midland ) ss.

BEFORE ME, The undersigned authority, on this day personally appeared G. W. Coombes 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 4th day of October, 19 61.

Belle Grimes  
Belle Grimes Notary Public in and for the County of Midland

June 1, 1963

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.

Perforating and Abandonment Data

Perforated: 9880-88', 9902-08' and 9930-36'.

Squeezed with 24 barrels Dowell Cement.

Perforated: 9969-78'. Squeezed with 1000 gals. cement and 11 barrels cement.

Perforated: 9930-36'. Squeezed all perms with 21 barrels cement.

Perforated: 9880-88'. Squeezed with 1000 gallons cement.

Perforated: 9814-18'. 16 sacks slo set cement plug from 9670-9818'

Plugged May 29, 1961 as follows:

Plugged @ 9670-9818' with 16 sacks slo set cement. Shot & pulled 5-1/2" casing from 6925'.

Plugged @ 6875-6975' with 20 sacks cement.

Plugged @ 6660-6730' with 20 sacks cement.

Plugged @ 5530-5600' with 20 sacks cement.



PHILLIPS PETROLEUM COMPANY  
BARTLESVILLE, OKLAHOMA

PRODUCTION DEPARTMENT

October 10, 1961

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

Application of Union Oil Company  
of California for Approval of New  
Mexico Oil Conservation Commission  
to Dispose of Salt Water into the  
Yates Formation in its State BH  
Well No. 1, Lea County, New Mexico

Gentlemen:

Union Oil Company of California has advised us by letter dated October 4, 1961 of its application to use the Yates formation in its State BH Well No. 1 located in Section 32, Township 15 South, Range 32 East, Lea County, New Mexico for salt water disposal purposes.

As requested by the applicant, enclosed is waiver of objection signed on behalf of Phillips Petroleum Company waiving notice of hearing relative to this application.

Yours very truly,

O. P. Nicola, Jr.

JRB:hd  
Attach.

cc: Union Oil Company of California  
Union Oil Building  
619 West Texas  
Midland, Texas



October 10, 1961

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

PHILLIPS PETROLEUM COMPANY hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

By:

O. P. Nicola, Jr.  
Director of Proration  
Production Department



October 12, 1961

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

Humble Oil & Refining Company hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

By: H. L. Hensley  
H. L. Hensley

HIB  
all

October 10, 1961

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

Gulf Oil Corporation hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

Gulf Oil Corporation

By: W. A. Shellshear

October 6, 1961

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

TEXACO Inc. hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

TEXACO Inc.

By: B. L. Francis  
B. L. Francis  
Assistant Division Manager

October 9, 1961

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

Texas Pacific Coal and Oil Company hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

TEXAS PACIFIC COAL AND OIL COMPANY

By: R. W. Hines  
R. W. Hines-Exec. Vice President

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

Attention: Mr. A. L. Porter, Jr.  
Secretary & Director

Gentlemen:

Mobil Oil Company hereby  
waives its notice of objection and consents to the application made by  
Union Oil Company of California to use the Yates zone in their State BH  
No. 1 Well for salt water disposal purposes. This well is located 990  
feet from the south and 330 feet from the east lines of Section 32,  
Township 15-S, Range 32-E, Lea County, New Mexico.

Very truly yours,

Mobil Oil Company

By: CH Dangle

OCT 16, 1961



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

October 24, 1961

ADDRESS CORRESPONDENCE TO:

~~XXXXXXXXXX~~

SANTA FE, N. M.

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

Dear Mr. Porter:

Reference is made to the application of Union Oil Company of California dated October 13, 1961 seeking to dispose of salt water by injection into a porous formation through their well No. 1, Lea County, Unit P, Section 32, Township 15 South, Range 32 East.

This office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds  
State Engineer

By: *Frank E. Irby*  
Frank E. Irby  
Chief  
Water Rights Division

ma  
cc-Union Oil Co. of California  
Midland, Texas

F. H. Hennighausen

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE Oct. 20, 1961

OIL CONSERVATION COMMISSION  
BOX 371  
SANTA FE, NEW MEXICO

Re: Proposed NSP \_\_\_\_\_

Proposed NSL \_\_\_\_\_

Proposed NFC \_\_\_\_\_

Proposed DC \_\_\_\_\_

Gentlemen:

SWD X

I have examined the application dated \_\_\_\_\_  
for the Union Oil Co. of Calif. State BH #1-P 32-15-32  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

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

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

Yours very truly,

OIL CONSERVATION COMMISSION



1. 001-002

2. 003-004

3. 005-006

4. 007-008

5. 009-010

6. 011-012

7. 013-014

8. 015-016

9. 017-018

10. 019-020

11. 021-022

12. 023-024

13. 025-026

14. 027-028

15. 029-030

16. 031-032

17. 033-034

18. 035-036

19. 037-038

20. 039-040

21. 041-042

22. 043-044

23. 045-046

24. 047-048

25. 049-050



## NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103  
(Rev 3-55)

## MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

|   |  |   |                      |                         |                      |
|---|--|---|----------------------|-------------------------|----------------------|
| Name of Company<br><b>Union Oil Company of California</b> |  | Address<br><b>619 W. Texas Ave., Midland, Texas</b> |                      |                         |                      |
| Lease<br><b>State "BN"</b>                                | Well No.<br><b>1</b>                   | Unit Letter<br><b>P</b>                             | Section<br><b>32</b> | Township<br><b>15-S</b> | Range<br><b>32-E</b> |
| Date Work Performed<br><b>Sept. 25 to 27, 1961</b>        | Pool<br><b>Anderson Ranch Wolfcamp</b> |   |                      | County<br><b>Lea</b>    |                      |

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations      ☐ Casing Test and Cement Job      ☒ Other (Explain): Report of test for salt water injection.  
☐ Plugging      ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Total depth 10,011 feet. Plug back depth 5530 feet.

Perforated 8-5/8" casing from 2664' to 2676' and from 2680' to 2695' with two jet shots per foot. Pumped 130 barrels of salt water to Yates formation at 250# pressure at an injection rate of 2.5 barrels per minute.

During test for injectivity use, pumped 135 barrels of salt water at rate of one barrel per minute, 0# pressure.

Installed National Type E tubing head and shut well in on September 27, 1961, pending submission and approval of application for salt water disposal in the Yates formation.

|                                     |                                |   |
|-------------------------------------|--------------------------------|---|
| Witnessed by<br><b>Perry Barham</b> | Position<br><b>Petr. Engr.</b> | Company<br><b>Union Oil Company of California</b> |
|-------------------------------------|--------------------------------|---|

## FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

## ORIGINAL WELL DATA

|                        |              |                     |                        |                 |
|------------------------|--------------|---------------------|------------------------|-----------------|
| D F Elev.              | T D          | P B T D             | Producing Interval     | Completion Date |
| Tubing Diameter        | Tubing Depth | Oil String Diameter | Oil String Depth       |                 |
| Perforated Interval(s) |              |                     |                        |                 |
| Open Hole Interval     |              |                     | Producing Formation(s) |                 |

## RESULTS OF WORKOVER

| Test            | Date of Test | Oil Production BPD | Gas Production MCFPD | Water Production BPD | GOR Cubic feet/Bbl | Gas Well Potential MCFPD |
|-----------------|--------------|--------------------|----------------------|----------------------|--------------------|--------------------------|
| Before Workover |              |                    |                      |                      |                    |                          |
| After Workover  |              |                    |                      |                      |                    |                          |

OIL CONSERVATION COMMISSION

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

|             |   |
|-------------|---|
| Approved by | Name<br><b>Paul Wecker</b>                        |
| Title       | Position<br><b>Production Clerk</b>               |
| Date        | Company<br><b>Union Oil Company of California</b> |

1900

1901

1902

1903

1904

1905

1906

1907

1908

1909

1910

1911

# ILLEGIBLE Memo

From

CARL ULVOG

SENIOR

PETROLEUM GEOLOGIST

To File: SUD-20

Union Oil Co.

Midland

Midland

called on this well.

Yates formation has not been  
used for over yet. Some  
was for San Joaquin formation.  
and that is being used.