

## NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR <b>OLEN F. FEATHERSTONE</b>		ADDRESS <b>239 Petroleum Building Roswell, New Mexico 88201</b>	
LEASE NAME <b>Union Oil Co. of Calif. State "32"</b>	WELL NO. <b>1</b>	FIELD <b>North Morton</b>	COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>D</b> ; WELL IS LOCATED <b>1980</b> FEET FROM THE <b>South</b> LINE AND <b>660</b> FEET FROM THE <b>West</b> LINE, SECTION <b>32</b> TOWNSHIP <b>14 S.</b> RANGE <b>35 E.</b> NMPM.			

## CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	<b>11-3/4"</b>	<b>400'</b>	<b>200</b>	<b>surface</b>	
INTERMEDIATE	<b>8-5/8"</b>	<b>4,600'</b>	<b>400</b>	<b>3,100' (est)</b>	<b>calculated</b>
LONG STRING	<b>4-1/2"</b>	<b>4,500'</b>	<b>25</b>	<b>4,400'</b>	<b>calculated</b>
TUBING	<b>2-3/8"</b>	<b>4,500'</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Guiberson KV 4,500'</b>		
NAME OF PROPOSED INJECTION FORMATION <b>San Andres</b>			TOP OF FORMATION <b>4,460'</b>		BOTTOM OF FORMATION <b>5,955'</b>
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>tubing</b>			PERFORATIONS OR OPEN HOLES <b>open hole</b>		
			PROPOSED INTERVAL(S) OF INJECTION <b>4,630' - 6,183'</b>		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>no</b>		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>10,561' Permo-Penn. test</b>			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>no.</b>
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>None</b>					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>400</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>10,430'</b>	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) <b>4000</b> <b>-3500</b>	MINIMUM <b>7500</b> <b>-5000</b>	MAXIMUM <b>7500</b> <b>-5000</b>	OPEN OR CLOSED TYPE SYSTEM <b>?</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>?</b>	APPROX. PRESSURE (PSI) <b>?</b>
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 - <b>yes</b>			WATER TO BE DISPOSED OF <b>yes</b>		
			NATURAL WATER IN DISPOSAL ZONE <b>yes</b>		
			ARE WATER ANALYSES ATTACHED? <b>yes</b>		
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>STATE OF NEW MEXICO, Post Office Box 1148, Santa Fe, New Mexico 87501</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>TENNECO OIL COMPANY, Post Office Box 1031, Midland, Texas 79701</b> <b>300 Security National Bank Building UNION OIL COMPANY OF CALIFORNIA, Roswell, New Mexico 88201</b> <b>RALPH LOWE ESTATE, Post Office Box 832, Midland, Texas 79701</b> <b>CITIES SERVICE OIL COMPANY, Post Office Box 4906, Midland, Texas 79701</b>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? <b>yes</b>		SURFACE OWNER <b>yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>yes</b>	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) <b>yes</b>		PLAT OF AREA <b>yes</b>		ELECTRICAL LOG <b>yes</b>	
				THE NEW MEXICO STATE ENGINEER <b>no</b>	
				DIAGRAMMATIC SKETCH OF WELL <b>yes</b>	

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

Landman

October 30, 1968

(Signature)

(Title)

(Date)

(Roger L. Holmes)

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.



RIGHT-OF-WAY AGREEMENT - NEW MEXICO

THE STATE OF NEW MEXICO    X  
                                  X ss.  
COUNTY OF               LEA    X

KNOW ALL MEN BY THESE PRESENTS:

THAT, the undersigned, LOVINGTON NATIONAL BANK, TRUSTEE FOR MARY H. STANSELL, hereinafter styled "Grantor" whether one or more, for and in consideration of the sum of Three Hundred Seventy-Seven and 76/100 Dollars, paid by OLEN F. FEATHERSTONE, the receipt of which is hereby acknowledged, does hereby grant and convey unto OLEN F. FEATHERSTONE, hereinafter called "Grantee", its successors and assigns, the right to lay, replace, maintain, operate, change the size of, and remove pipes and pipe lines for the transportation of oil, gas, water and other fluids, or any of them, and the right, either in connection with said pipe lines or independently thereof, or both, to construct, operate, alter, add to, maintain and remove telephone, telegraph, and power lines, or any of them consisting of poles, wires and all other incidental equipment, together with the right to permit for any purposes whatsoever, the attachment, maintenance and use of the wires, with all incidental equipment, of any other party or parties, together with the right of ingress and egress, for the purpose aforesaid, on, over, under, through and across the following described land situated in Lea County, New Mexico, to-wit:

SEE ATTACHED PLAT

together with the right to cut, trim and remove, now or hereafter, bushes, trees and all other obstructions which may interfere with the rights herein granted.

Grantor reserves the right to full use and enjoyment of said premises except for the purposes herein granted but such use shall not hinder, conflict or interfere with the exercise of the rights herein granted to Grantee, and no building, reservoir or structure shall be constructed within 40 feet of any pipe line laid hereunder without first obtaining the written consent of Grantee.

Grantee shall have the right to select the route upon which all lines of pipe and other lines are laid and constructed under this agreement, and any line of pipe laid after the first line of pipe shall be laid parallel with and adjacent to said first line of pipe. All pipe laid under this grant shall be buried to such a depth as not to interfere with the ordinary cultivation of the above described land.

Grantee agrees to pay for any damages to fences, growing crops, improvements and timber, except timber trimmed, of Grantor arising from the exercise by Grantee as to all or any of the rights herein granted to Grantee, or any interest therein.

It is also understood and acknowledged by Grantor that the person securing this grant is without authority to make any agreement in regard to the subject matter hereof which is not expressed herein and this right-of-way agreement contains all of the agreements and stipulations between the parties.

EXECUTED THIS 5th DAY of November, A.D., 1962.

LOVINGTON NATIONAL BANK TRUST DEPT.

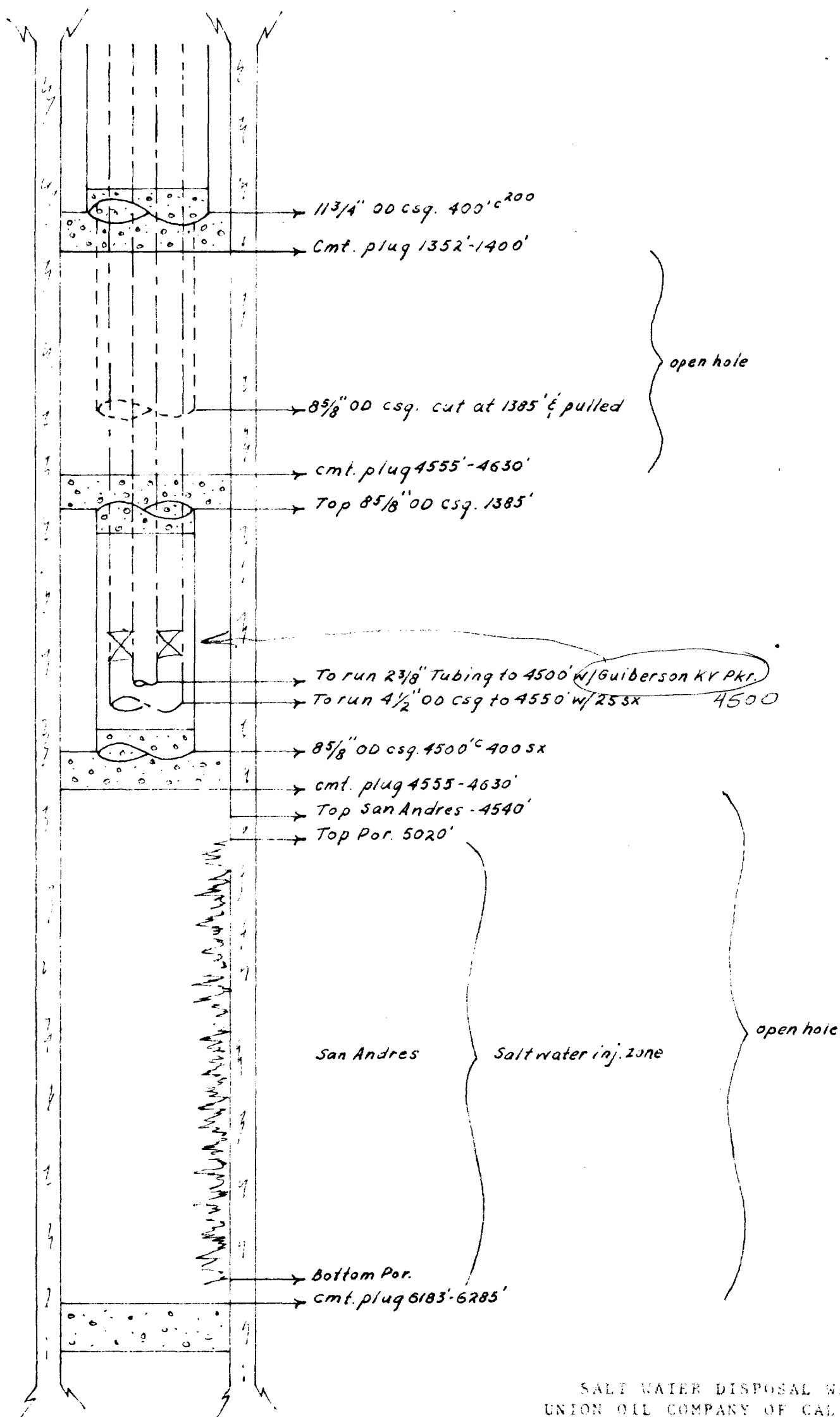
Roy L. Jones Jr. atty.

STATE OF NEW MEXICO    I  
   I ss.  
COUNTY OF            LEA       I

The foregoing instrument was acknowledged before me this  
5th day of November, 1968 by Ray L. Jones

Lorraine Linchbach  
Notary Public

My Commission Expires:  
SEP 1 1970



SALT WATER DISPOSAL WELL  
 UNION OIL COMPANY OF CALIFORNIA  
 NO. 1-32 STATE  
 1980' FSL & 600' FRI  
 Section 32, 1-14-S, R-35-E, NMPM  
 Lea County, New Mexico

Olen F. Featherstone  
OIL PRODUCER  
ROSWELL PETROLEUM BUILDING  
ROSWELL, NEW MEXICO 88201

November 1, 1968

Ralph Lowe Estate  
Post Office Box 832  
Midland, Texas 79701

Re: Salt Water Disposal System,  
North Morton Field  
Twp. 14 S., Rge. 35 E., N.M.P.M.,  
Lea County, New Mexico

Gentlemen:

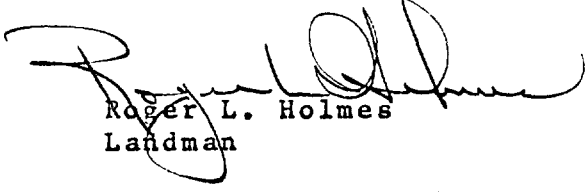
With reference to the captioned and in compliance with the New Mexico Oil Conservation Commission's rules and regulations, we enclose herewith for your records one copy of Form C-108 in regard to Union Oil Company of California's No. 1-32 State which is to be used as the injection well for this disposal system.

If you have no objections to the proposed salt water disposal project as an offset lease owner, please signify your approval by dating and signing the xerox copy of this letter and returning same in the enclosed self-addressed envelope in order that we might ask the Oil Conservation Commission to waive the fifteen (15) day waiting period for protests.

Thank you for your understanding and attention to this request.

Very truly yours,

OLEN F. FEATHERSTONE

  
Roger L. Holmes  
Landman

APPROVED:

RALPH LOWE ESTATE

By *HL Landman - Co Executor*  
Date 11-4-68

Olen F. Featherstone  
OIL PRODUCER  
ROSWELL PETROLEUM BUILDING  
ROSWELL, NEW MEXICO 88201

November 1, 1968

RECEIVED  
NOV 4 1968  
MIDLAND DISTRICT  
PRODUCTION

Tenneco Oil Company  
Post Office Box 1031  
Midland, Texas 79701

Re: Salt Water Disposal System,  
North Morton Field  
Twp. 14 S., Rge. 35 E., N.M.P.M.,  
Lea County, New Mexico

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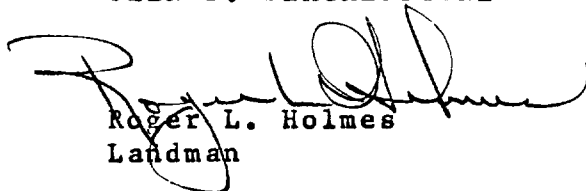
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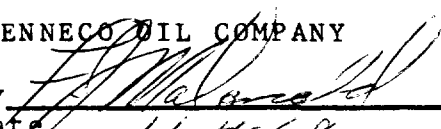
Very truly yours,

OLEN F. FEATHERSTONE

  
Roger L. Holmes  
Landman

APPROVED:

TENNECO OIL COMPANY

By   
Date 11-4-68

Olen F. Featherstone  
OIL PRODUCER  
ROSWELL PETROLEUM BUILDING  
ROSWELL, NEW MEXICO 88201

November 1, 1968

Union Oil Company of California  
300 Security National Bank Building  
Roswell, New Mexico 88201

Re: Salt Water Disposal System,  
North Morton Field  
Twp. 14 S., Rge. 35 E., N.M.P.M.,  
Lea County, New Mexico

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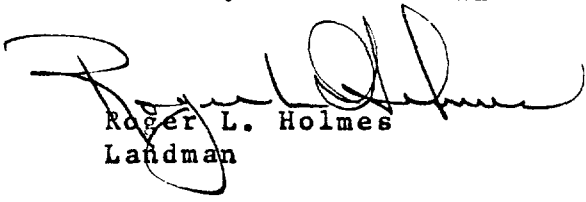
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Very truly yours,

OLEN F. FEATHERSTONE

  
Roger L. Holmes  
Landman

APPROVED:

UNION OIL COMPANY OF CALIFORNIA

By John Hansen

Date Dec. 8, 1968



Olen F. Featherstone  
OIL PRODUCER  
ROSWELL PETROLEUM BUILDING  
ROSWELL, NEW MEXICO 88201

November 1, 1968

Cities Service Oil Company  
Post Office Box 4906  
Midland, Texas 79701

Re: Salt Water Disposal System,  
North Morton Field  
Twp. 14 S., Rge. 35 E., N.M.P.M.,  
Lea County, New Mexico

Gentlemen:

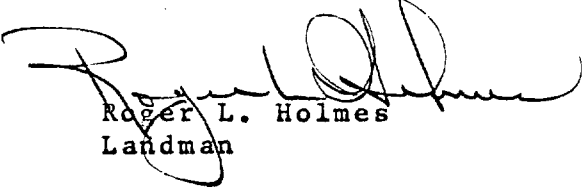
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Very truly yours,

OLEN F. FEATHERSTONE

  
Roger L. Holmes  
Landman

APPROVED:

CITIES SERVICE OIL COMPANY

By 

Date 11-5-68

~~MANAGER, WESTERN REGION~~  
PRODUCTION DIVISION

Union Oil Company of California

619 West Texas Avenue, Midland, Texas 79701  
Telephone (915) MU 4-8231



November 8, 1968

Mr. Olen F. Featherstone  
Petroleum Building  
Roswell, New Mexico 88201

Dear Mr. Featherstone:

Salt Water Disposal Well  
Union #1 State 32  
Lease No. 72740 (K-2950)  
Stansell-Austin Prospect (7450)  
Lea County, New Mexico

You have requested us to turn over to you our State 32 Well No. 1, located 1980 feet from the South line and 660 feet from the West line of Section 32, Township 14 South, Range 35 East, N.M.P.M., Lea County, New Mexico.

It is our understanding that you wish to use this well solely for the disposal of produced water from your wells in the vicinity.

We agree to transfer this well and any casing located therein to you upon the following terms and conditions:

1. Your use and operations, in connection with this well, will be restricted solely to the disposal of water produced from your oil wells in the vicinity.
2. You agree to save and hold harmless the Union Oil Company of California from any and all liability or damages which may result from your operation of this well.
3. You will assume the full responsibility and liability for the plugging of this well when it is no longer required for the disposal of produced water.
4. You agree that, to the extent of the unused capacity of the well to dispose of produced water, that you will dispose of any produced water from Union Oil Company of California's wells, free of charge to Union, upon its delivery of said produced water to the wellhead.

Page 2

Mr. Featherstone

November 8, 1968

5. That in the event State Lease K-2950 on which the aforesaid well is located is terminated or expires and you acquire by assignment or purchase a new State lease covering the SW/4 of aforesaid Section 32, that for a period of six months from the date of your acquisition of same Union shall have the option to acquire a one-half interest therein by paying you one-half of your acquisition cost of same; and in the event of said acquisition by you, you shall furnish, within thirty (30) days therefrom, to Union a cost statement in connection therewith.

If the terms of this letter agreement are satisfactory, please indicate your acceptance in the place provided and return a copy thereof to us.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

By:

John Hansen  
John Hansen  
Manager of Lands  
Central Division

ESK/mj

ACCEPTED this 12<sup>th</sup> day of November, 1968.

Olen F. Featherstone  
Olen F. Featherstone

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE