THE ATLENTIC REFINING COMPANY
Ancorporated - 1870
Petroleum Products

P. O. Box 1610
West Texas-New Mexico Region

P. O. Box 1610
Midland, Texas

December 21, 1959

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

ATTENTION: Mr. A. L. Porter

Re: Conversion of Shell's Pacific
Royalty No. 4 Well to Salt Water
Disposal Well, Denton Field,
Lea County, New Mexico

#### Gentlemen:

Attached is Atlantic's application for permission to recomplete the Shell Pacific Royalty No. 4 Well as a salt water disposal well to be used by the Denton Field operators. The well is located in the NE/4 SE/4 of Section 10, T-15-S, R-37-E and was drilled as a dry Devonian test in 1954. It is proposed to inject water in the Pennsylvanian formation within the interval 9920-11,078.

This well has been purchased jointly by the Denton Field operators. It will serve as a standby injection well and will be recompleted as an injection well at such time as it is needed. It will also serve as a second disposal well, if needed, because of water volumes. To complete the well as a salt water disposal well, approximately 9920° of 7° casing and 9,910° of 5° tubing will be installed.

By copies of this application, the State Engineer, the offset operators, and surface owners, as listed on the attached application, are being notified of our plans to make the Pacific Royalty No. 4 a disposal well.

In lieu of a waiver from the surface owner, we are attaching a copy of an executed lease between the Atlantic Refining Company and J. M. and Iva L. Denton, surface owners, covering 2.066 acres surrounding the Shell Pacific Royalty No. 4 Well. It is stated in this lease that the Atlantic Refining Company and other operators in the Denton Field have the right to use this surface acreage in salt water disposal operations for the field.

Yours very truly,

THE ATLANTIC REFINING COMPANY

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## 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 Denton and Denton Wolfcamp County Lea
Operator Atlantic
Address P. O. Box 1038, Denver City, Texas
Lease Name Shell-Pacific Royalty Well No. 1
Depth to top of injection zone 99204
Depth to base of injection zone 11,078
Size of surface casing 13-3/8" O. D.
Length of surface casing 332'
Number of sacks of cement used on surface casing
Size of long string 7" has been pulled from 10,309' to surface; 7" will be re-run during comp.
Length of long string 7" will be set at approximately 9920;
Number of sacks of cement used on long string approximately 600 sacks will be used
Size of tubing 5" Length of tubing 9910°
Depth of tubing packer setting None
Name and model of packer None
Is injection through tubing or long string or annulus?tubing
Is injection through perforations or open hole? open hole
Was the well drilled for salt water disposal purposes?
List perforated intervals and number of sacks of cement used on any squeeze cementing operations None. 7" csg. remaining in well now will be adequately squeezed, if necessary.
What is depth of the shallowest zone productive of oil or gas in this Pool Wolfcamp at 9270
What it depth of the deepest zone containing fresh water in this Pool? 200
Are there any other salt water disposal wells in this Pool using this same some for injection purposes? Yes If so, list operator, lease and well number
Atlantic Refining Company Dickinson A-13 SWD No. 1
What is the approximate volume of salt water to be injected daily? 10,000 barrels
Will system be open or closed type? closed
Will injection be by gravity or pump pressure?pump
If by pump pressure, give approximate number of pounds per square inch 150 psi
Will it be necessary for water to be filtered or chemically treated?
Is this well so cased and completed that water can enter no other formation than the above setout injection zone? It will be after recompletion.

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.								
	Shell Oil Company, Box 845, Roswell, New Mexico, Attn: Mr. S. B. Deel								
	Phillips Petroleum Company, Box 2105, Hobbs, New Mexico, Attn: Mr. F. C. Morgan								
	Ohio Oil Company, Box 552, Midland, Texas, Attn: Mr. C. S. Mills								
	Mr. J. M. Denton, 902 West Avenue H. Lovington, New Mexico								
	Mr. Steve Reynolds, State Engineer, Box 1079, Sante Fe, New Mexico								
3•	Have notices of this application been sent by registered mail or given to all offset operators, surface owners and to the N. M. State Engineer?								
40	Attach waivers from all offset operators.								
5•	Attach waivers from <u>surface</u> 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.								
	THE ATLANTIC REFINING COMPANY								
	Operator								
	f. k. State								
	By P. E. Fletcher, Regional Operations Manager								
THE	STATE OF Texas								
GUU									
18	P. E. Fletcher known to me to be the person whose name is scribed to the above instrument, who being by me duly sworn on oath states that he duly suthorized to make the above report and that he has knowledge of the facts ted therein and that said report is true and correct.								
19_5	SUBSCRIBED AND SWORN TO before me, this the								
	County, Texas								

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Said brack is to so and by Atlantic for any purpose convenient in conmedian with the aforementioned "System."

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This surface lease is a paid up lease and small remain in force and effective such period of time as any well or wells are connected to such "System"; and further, until such time that the Operators of said "System" place and instrument of record in the Becords of Lea County, New Mexico, formally terminating this surface lease.

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of this agreement, to remove any and all a many which may be placed on the mast of land above described. Atlantic agrees the set said premises of all dangerous and/or deleterous substances, as well as junk and the land the land after termination of this surface agreement.

Nothing herein shall in any way a siy or a sect any oil and gest covering said property.

While Atlantic is the only "operator" mentitued in this agreement, to rights and obligations hereinafter set out pertain to and apply to all "Operator" (as well as Atlantic) who execute the "AGREMENT FOR THE IN CALLATION AND OPE ATION OF THE DESTON FIELD SALT WATER DISPOSAL SYSTEM."

IN WITHERS	WHEREOF,	this	instrument	is	expouted	effective	28	01
July 1st.			, 19	59.				

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### INDIVIDUAL ACKNOWLEDGME T

STATE OF NEW MEXICO	<b>)</b> ;.	
County Of LEA	88	
* 151	nt was acknowledged before me	_dayr of
July , 1959 by J. M. D	enton and Iva L. Denton,	ar.i
Wife.		

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## SAIS VARIE BEFORAL SISTEM

STATE OF NEW MEETING J

I,

Several of the eperators of oil and gas properties in Deston Field, less County, Nov Maxico, and surrounting area, are in the process of completing a continue called "ACRIMINE FOR THE IMPALLATION AND OPERATION OF THE IMPORTED SALT VALUE"
DISPOSAL SYSTEM, " hereinafter assortions referred to as "System." T "Itlantic Defining Company (Atlantic) will be "Sparetor" of said System."

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The purpose of said "System" is to provide to the disposition of sait unitary and other deleterious substances produced by wells in the Deuton Field and surrounding area, including also say deleterious substances that are or say be used incident to much producing operations, by injecting such substances: externrested by means of a sait unter disposal well or wells, hardanfter called "Expensed della," into a formation or formations between of oil or gas, or both, in or the custoffice, and fresh unter. Such "System" is subject to the approval of the level does not Conservation.

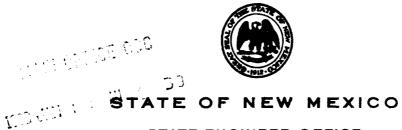
## III.

It is contemplated that the Shell's-Pacific Repaity Company No. 4 wall, located NE/4 SE/4 Section 10, Township 15 South, Range 37 East, Lea County, New Maxieto, will be converted into a disposal well. It is recomined that a certain amount of surface acroage will be meded in and around the Di vocal Well for the placing of configuent and for other was incident to said "System."

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of One Hundred Fifty and No/100 (\$150.00) - - - the receipt of which is acknowledged, and for the henefit to this and other property of the unicraigned, do hereby lease, let and denies to the Atlantic Refining Company, their successors and assigns, a surface lease in and to the following described tract of land situated in Lea County, New Maxico, to with

et of land opt of Bostion 10, 1755, 1975 and being to as follows: Ingiming at the Southeast corner of S Boing a 2,066 acre tre i Mass of said S 45' 7 ri along a line pe 156,0 ft, to a p of 179.7 ft. to a p South line of said See ets th o 151 west a dist c 300.0 st, to a er of this ter , Or, A A a dist t for S.W. corners th 45' cost a distance of 300,0 ft. to a point for E.E. with 0° OL! east a dist so of 388.0 ft. to the point of begins containing 2.066 serve more or 1



## STATE ENGINEER OFFICE

SANTA FE

S.E.REYNOLDS STATE ENGINEER

January 19, 1960

ADDRESS CORRESPONDENCE TO: P. O. BOX 1079 SANTA FE, N. M.

Oil Conservation Commission Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr.

Dear Mr. Porter:

Reference is made to the application of The Atlantic Refining Company dated December 21, 1959 seeking conversion of Shell's Pacific Royalty No. 4 Well to Salt Water Disposal Well, Denton Field, Lea County, New Mexico. I have reviewed this application and discussed it with your staff and reached the conclusion that the proposal will not constitute a threat to the quality of waters found in this area. Therefore, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds State Engineer

Chief

Water Rights Division

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