



# SHELL OIL COMPANY

P. O. Box 845  
Roswell, New Mexico

SWD-9  
due 2-10  
(writers)

February 5, 1958

Subject: Request for authority to dispose of  
salt water in State A No. 1 well,  
Echol Field, Lea County, New Mexico

Mr. A. L. Porter, Jr.  
Secretary Director  
New Mexico Oil Conservation Commission  
P. O. Box 371  
Santa Fe, New Mexico

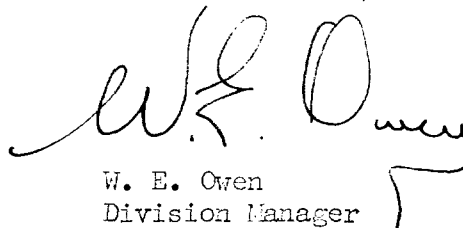
Dear Mr. Porter:

We have recently completed design work for a community salt water disposal system in the Echol Field, Lea County, New Mexico. The proposed salt water disposal well to serve this system will be our State A No. 1 well which is located in Section 2, T-11-S, R-37-E, NMPM Survey, as shown on the attached plat.

We have obtained permission to use this salt water disposal well from the office of the Commissioner of Public Lands, the State Engineers office, and from the offset operators. The approvals are included with this letter.

With the preliminary work now completed, we are hereby making formal application for administrative approval to dispose of salt water in our State A-1 well.

Very truly yours,

  
W. E. Owen  
Division Manager

Attachments

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 Echol County Lea

Operator Shell Oil Company

Address Box 845, Roswell, New Mexico

Lease Name State A Well No. 1

Depth to top of injection zone 4249 feet

Depth to base of injection zone 5543 feet

Size of surface casing 13 3/8"

Length of surface casing 351 feet

Number of sacks of cement used on surface casing 325 sacks Regular Neat

Size of long string 8 5/8"

Length of long string 4249 feet

Number of sacks of cement used on long string 900 Sacks Regular Neat + 4% Gel

Size of tubing 3 1/2" O.D. Length of tubing 4250'

Depth of tubing packer setting 4230 feet

Name and model of packer Baker production packer 415-DA

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? No

List perforated intervals and number of sacks of cement used on any squeeze cementing operations None

What is depth of the shallowest zone productive of oil or gas in this Pool 11,600 feet

What is depth of the deepest zone containing fresh water in this Pool? 300 feet

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

What is the approximate volum of salt water to be injected daily? 3000 bbls.

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Pump pressure

If by pump pressure, give approximate number of pounds per square inch 1000

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

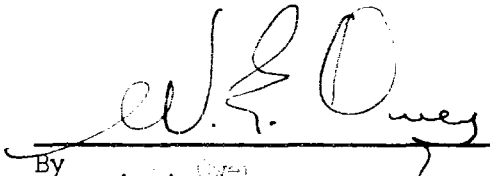
Is this well so cased and completed that water can enter no other formation than the above setout injection zone? Yes

1. Attach a complete full-scale electrical log of this well (one Copy to OCC only).
2. List names and addresses of all offset operators and surface owners.

<u>State of New Mexico</u>	<u>Humble Oil, Midland, Texas</u>
<u>Sinclair Oil &amp; Refining Co. Midland, Tex.</u>	<u>Texas Gulf, Midland, Texas</u>
<u>The Texas Co., Midland, Tex.</u>	<u>Cabot Carbon, Pampa, Texas</u>
<u>Union Oil, Midland, Texas</u>	

3. Have notices of this application been sent by registered mail or given to all offset operators, surface owners and to the N. M. State Engineer? Yes
4. Attach waivers from all offset operators.
5. Attach waivers from surface owners of land on which well is located or a letter from company making application to the surface owner explaining said application and requesting waiver.
6. No application will be processed until Item 1 has been attached to the application. Should all necessary waivers not accompany application, the Commission shall hold such application for a period of fifteen (15) days from date of receipt in the Santa Fe Office. If, after said fifteen (15) day period, no protest or request for hearing is received in the Santa Fe Office, the application will then be processed.

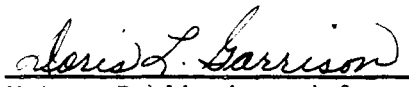
SHELL OIL COMPANY  
Operator

  
By W. E. Owen  
Division manager

THE STATE OF New Mexico  
COUNTY OF Chaves

BEFORE ME, The undersigned authority, on this day personally appeared W. E. Owen known to me to be the person whose name is subscribed to the above insturment, 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 7th day of February 19 58.

  
Notary Public in and for Chaves  
County, New Mexico

My Commission Expires February 7, 1961

9  
November 4, 1957

In reply refer to:  
Unit Division

C  
O  
P  
Y  
Shell Oil Company  
P. O. Box 1957  
Hobbs, New Mexico

Re: Disposal of Salt Water -  
Echol Field, Lea County, N. Mex.

Attention: Mr. W. E. Owen

Gentlemen:

We have received your application for permission to dispose of produced salt water in Shell's State "A" No. 1 Well.

In checking your State "A"-1 Well, we find it is a producing oil well, therefore, we believe you mean your State "A"-1A Well, which you started in August, 1957.

The surface rights to the S/2 and Lots 1,2,3 and 4 of Section 2 are under lease to Mr. Roy Thompson, Jr., P. O. Box 143, Clovis, New Mexico. It will be necessary for you to obtain waiver from surface rights lessee. If such is obtained, we will sign the waiver which you have submitted.

Very truly yours,

MURRAY E. MORGAN  
Commissioner of Public Lands

By: Ted Bilberry, Supervisor  
Oil and Gas Department

MEM:MMR/m

cc: OCC-Santa Fe  
Mr. Roy Thompson, Jr.  
P. O. Box 143-Clovis



END 93

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

November 4, 1957

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

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

Attn. Mr. Daniel S. Nutter

Gentlemen:

We received on October 31, 1957, a copy of application of Shell Oil Company to dispose of salt water by injection into the San Andres formation, between the depths of 4249 and 6000 feet, through their State "A" well No. 1 in the Echol Field in Lea County.

This office has no objection to the disposal of salt water into the San Andres formation at this location.

Please advise us your SWD file number in order that we may enter it upon this application.

This application was received through regular mail rather than registered mail.

Yours truly,

S. E. Reynolds  
State Engineer

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

FEI ma  
cc-Gene Chavez  
Shell Oil Co.

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Sanpax Office of State Engineer

Name

*Frank E. Stry*

Position Chief, Water Rights Div.

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930 for administrative approval to use their State A-1 well for Salt Water disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

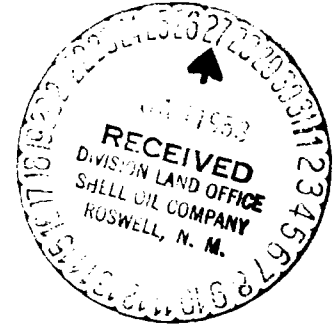
You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

\_\_\_\_\_  
Company STATE LAND OFFICE

Name \_\_\_\_\_

Position Commissioner of Public Lands



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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Company

Name

Position

Thompson Ranch  
Roy Thompson  
Owner



November 15, 1957

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Company TEXAS GULF PRODUCING COMPANY

Name *H. C. H. H.*

Position DIVISION MANAGER

Houston, Texas  
Nov. 12, 1957

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930 for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

*John H. H. H.*  
Company W. H. H. H. Co

Name J. H. H. H.

Position Asst. Production Engineer

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Union Oil Company of California  
Company

Name

*J. M. Saulty*

Position

Division Supt.

November 5, 1957

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Company Cabot Carbon Company

Name Percy C. Quinn

Position Dist. Prod. Supt.

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Company THE TEXAS COMPANY

Name 

Position Assistant Division Manager

11-6-57

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

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use their State A-1 well for Salt Water Disposal in the Echol Field.

We understand that all Salt Water produced in the Echol Field, Lea County, New Mexico will be injected into the San Andres formation through this well. We further understand that there is no oil or gas production from this formation within two miles of the above well.

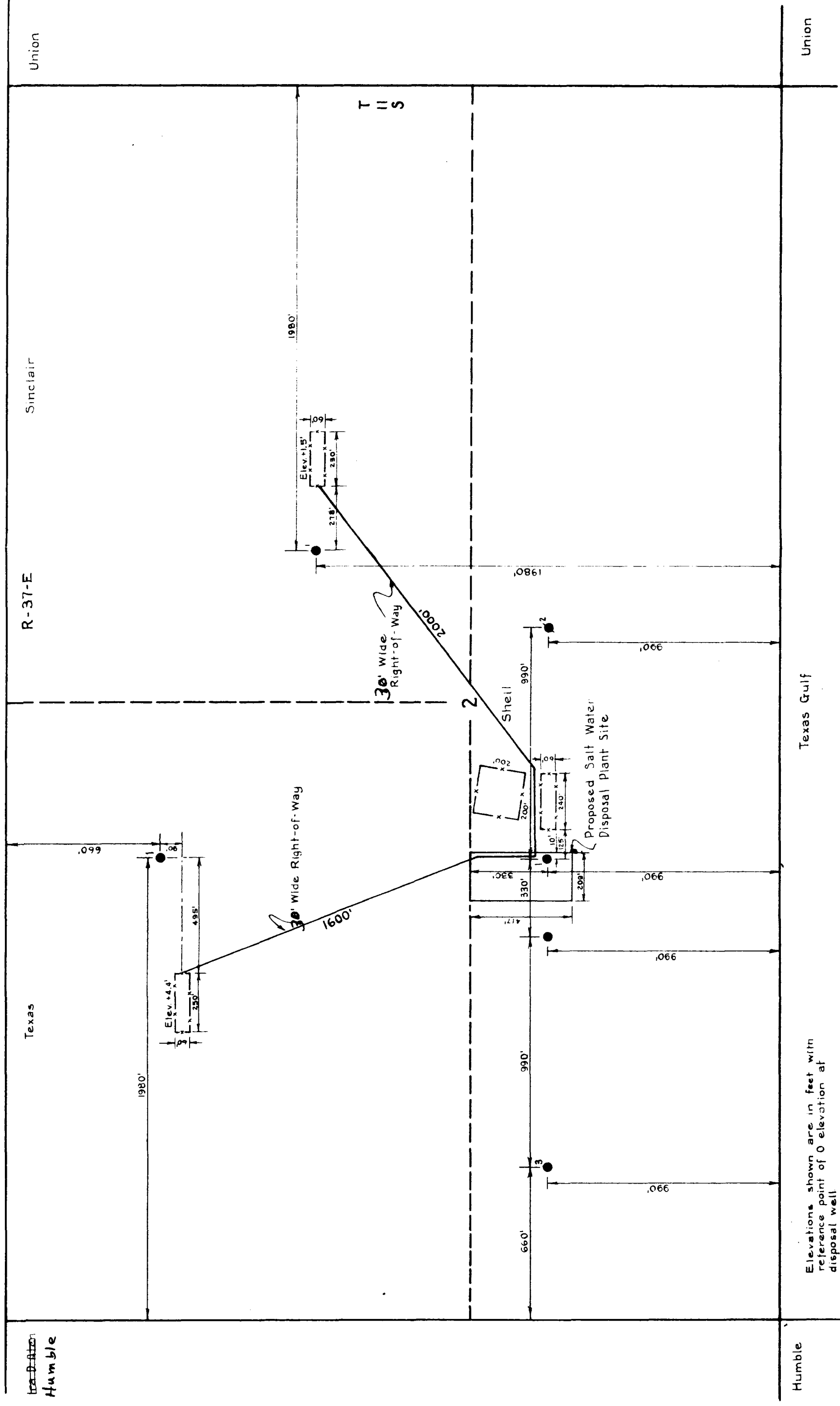
You are respectfully advised that we hereby waive notice and hearing under Rule 701 (c) as to said application for permission to dispose of salt water in said well.

Very truly yours,

Company SINCLAIR OIL & GAS COMPANY *from on*

Name *W. H. Deffenbaugh*

Position Division Production Superintendent



**Shell Oil Company**  
Hobbs Production, Division  
**SALT WATER DISPOSAL SYSTEM**  
Echols Field      Lea Co., New Mexico