

Energy Reserves Group, Inc.  
1509 West Wall Street  
P.O. Drawer 2437  
Midland, Texas 79702  
Phone 915 682 2591



June 25, 1984

Oil Conservation Division  
P. O. Box 1980  
Hobbs, N.M. 88240

Re: Application For  
Saltwater Disposal  
(Form C-108)

Gentlemen:

Energy Reserves Group, Inc. P. O. Box 2437, Midland, Texas makes application to utilize the Gulf Energy Taylor No. 1 (660' FNL & 1980' FWL, Sec. 11, 6S-33E Roosevelt Co., N. M.) as a saltwater disposal well. This well was originally drilled to a total depth of 7916 feet in attempt to make a oil producer and was later plugged & abandoned.

Energy proposes to inject into the non-productive San Andres formation open hole from 3509' to 4440'. The San Andres in this well is a light brown to tan dolomite with some anhydrite. The nearest producing zone (Cisco) to this well is approximately 1/2 mile away in Energy Reserves Group Bledsoe No. 2 at a depth of 7600'.

There are no wellbores (active or P&A) within a 1/2 mile radius of the Taylor No. 1. Estimated maximum rate is 2000 BWPD @ 2500 psi through a closed injection system. The disposal fluid is to be produced water and typical water analysis are attached. There are no underground sources of drinking water or fresh water wells in the immediate area of the Taylor No. 1.

Energy Reserves Group, Inc., has examined available geologic and engineering data and find no open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Attached is a mailing list in which copies of this application was sent by certified mail.

Proof of notice was published in the Portales News Tribune dated June 18, 1984, as per the attached affidavit.

A handwritten signature in cursive script that reads "Tim W. Gum".

Tim W. Gum  
District Engineer

TWG/ah

Mr. Joe M. Miller (Surface Owner)  
Rt. 1  
Elida, N. M. 88116  
Certified Mail No. P238394311

JUL 9 1984

Phillips Petroleum Co. (Leasehold)  
4001 Penbrook  
Odessa, Texas 79762  
Attn: Mr. Harold McLemore  
Certified Mail No. P238394312

Yates Petroleum Corporation (Leasehold)  
207 S. 4th  
Artesia, N. M. 88210  
Attn: Mr. Mike Slater  
Certified Mail No. P238394313

Oil Conservation Division  
P. O. Box 2086  
State Land Office Building  
Santa Fe, New Mexico 87501

Oil Conservation Division  
P. O. Box 1980  
Hobbs, New Mexico 88240

## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Energy Reserves Group, Inc.  
Address: P. O. Box 2437 Midland, Texas 79701  
Contact party: Mr. W. J. Sandidge Phone: 915/682-2591
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Tim W. Gum Title: District Engineer  
Signature: Tim W. Gum Date: 6/25/84
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

## III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Current Condition

DIVISION	FIELD	LOCATION
	Undesignated	Unit C; 660' FN x 1980' FWL

**WELL PROFILE**

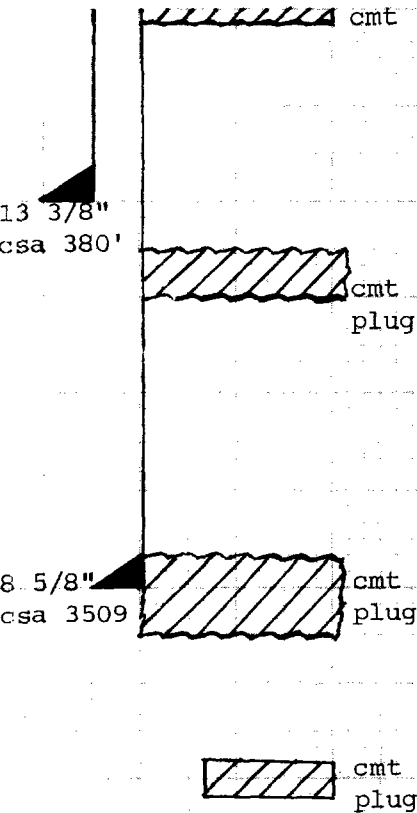
TD	DRILL PIPE	LOG
PBTD	DRILL PIPE	GAMMA-RAY

ELEVATION	DATUM POINT (GRD-KB-DF)
	4408' GL
	DATUM POINT ELEVATION

**CASING DESIGN**

SIZE	WEIGHT	GRADE	THREAD	COUPLING	MAKE	NO. JTS.	FOOTAGE	SACKS
13 3/8"	48#				17 1/2 hole		380	
8 5/8"	24&32#				11" hole		3509	
5 1/2"	17#				7 7/8" hole		7916	

PERFORATED INTERVAL	FORMATION	REMARKS
7743-47	Granite	
7768-80	Wash	
7730	CIBP x 35' cmt	
7633-74	CISCO	
7550	CIBP x 35' cmt	
7233-44	Wolfcamp	
7100	CIBP x 5 sx cmt	



**COMMENTS:**

Cmt 13 3/8" csg w/365 sx class "C". Circ.  
Cmt 8 5/8" csg w/1500 sx HCL Lite x 200 Class "H". Cmt Circ.  
Cmt 5 1/2" csg x 900 sx class "H". TOC 6000' temp sur.

Shot off csg @ 5200'. Pull x LD.

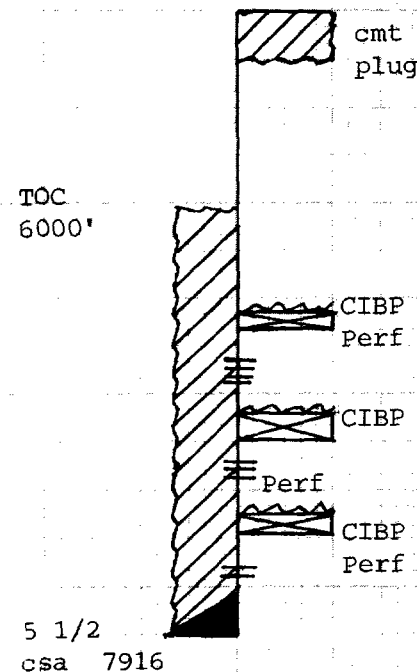
Spot 100' cmt plug @ 5200'

Spot 100' cmt plug @ 4440'

Spot 100' cmt plug @ 3500'

Spot 100' cmt plug @ 1500'

Set 10 sx plug @ surface



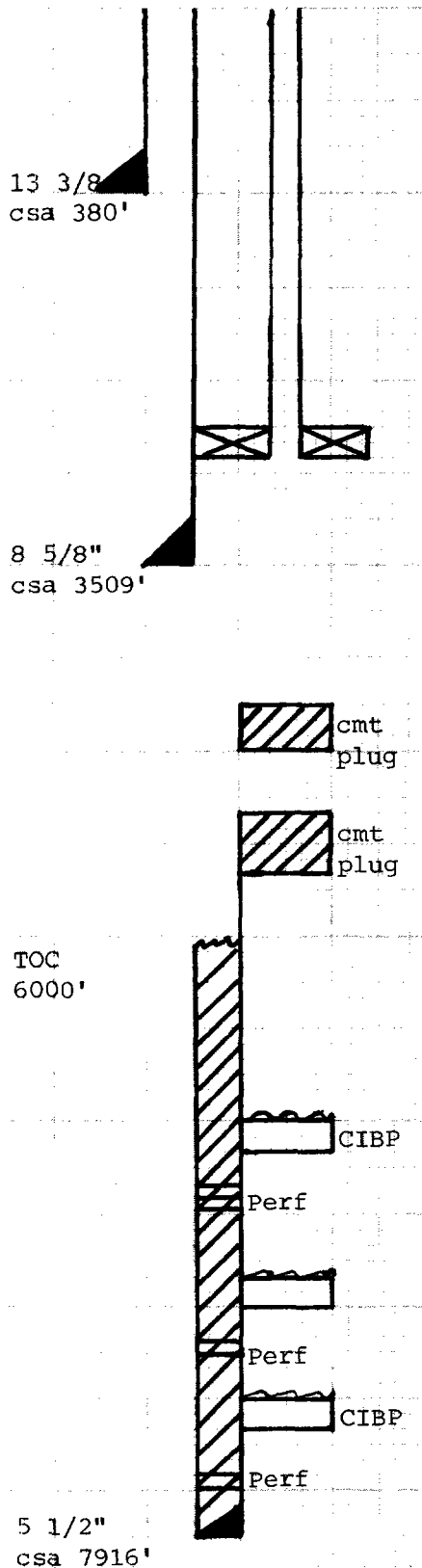
SUBMITTED BY	DATE	APPROVED BY

Lease \_\_\_\_\_  
Well No. \_\_\_\_\_ Sec. 11 T. 6-S R. 33-E  
Roosevelt Co., N. M.

Proposed Condition

DIVISION	FIELD	LOCATION
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WELL PROFILE



TD	DRILL PIPE	LOG	ELEVATION	DATUM POINT (GRD-KB-DF)
PBTD	DRILL PIPE	GAMMA-RAY		DATUM POINT ELEVATION

CASING DESIGN

SIZE	WEIGHT	GRADE	THREAD	COUPLING	MAKE	NO JTS.	FOOTAGE	SACKS
13 3/8	48#				17 1/2" hole		380'	
8 5/8	24&32#				11" hole		3509'	
5 1/2	17#				7 7/8" hole		7916'	

PERFORATED INTERVAL	FORMATION	REMARKS
7743-47	Granite	
7768-80	Wash	
7730	CIBP x 35' cmt	
7633-74	CISCO	
7550	CIBP x 35' cmt	
7233-44	Wolfcamp	
7100'	CIBP x 5 sx cmt	

COMMENTS:

2 3/8" plastic coated tubing x Baker Loc-set pkr set at 3400' with pkr fluid.

Cmt 13 3/8" csg w/365 sx Class "C". Circ.

Cmt 8 5/8" csg w/1500 sx Hal Lite x 200 sx Class "H". Cmt circ.

Cmt 5 1/2" csg x 900 sx Class "H". TOC 6000' per temp. survey.

Shot off x pulled 5 1/2" csg at 5200'.

Spot 100' cmt plug @ 5200'

Spot 100' cmt plug @ 4440'

SUBMITTED BY	DATE	APPROVED BY
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## WATER ANALYSIS

<u>Typical San Andres</u>		<u>Produced Sample #1</u>	<u>Produced Sample #2</u>
Specific Gravity	1.15	1.05	1.07
pH	6.0	6.3	5.3
Calcium	9,440	6500	5,100
Magnesium	1,070	300	300
Chlorides	127,600	69,000	55,000
Sulfate	3,000	600	450
Bicarbonate	990	425	195



# Affidavit of Publication

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**LEGAL NOTICE**  
Energy Resources Group, Inc. plans to  
re-enter the abandoned and abandoned Oil  
Field No. 1 in a shallow depth  
well. This well is located 650' FN & 1980'  
FWL, Sec 11, T-8-S, R-33-E, Roosevelt Co.,  
N.M.

The injection zone will be in the non pro-  
ductive San Andres formation at a open hole  
depth of 2600 to 4400 feet. Estimated injection  
rate will be 2000 BWPD at 2500 psi. There  
are no wellbores within a 1/4 mile radius of  
this well. All interested parties must file ob-  
jections or requests for hearing with the Oil  
Conservation Division, P. O. Box 2688, Santa  
Fe, New Mexico 87501 within 15 days.

Additional questions should be addressed  
to W. J. Sandage, District Production  
Manager Box 2437 Midland, Texas 79702,  
915-682-2581.

-s- Tim W. Gum  
District Engineer

Published in the Portales News-Tribune  
June 18, 1984. Legal No. 8526

I, Marshall Stinson  
Business Manager of

## THE PORTALES NEWS-TRIBUNE

a newspaper of general paid circulation and entered under  
second class postal privilege in Roosevelt County, published  
daily, (except Saturday) at Portales, New Mexico, for the fifty-  
two (52) consecutive weeks preceding this date, do solemnly  
swear that a copy of the above notice, as per clipping attached,  
was published weekly in the regular and entire issue of said

newspaper, and not in any supplement thereof for \_\_\_\_\_

consecutive weeks commencing with the issue dated \_\_\_\_\_

\_\_\_\_\_ June 18 19 84

and ending with the issue dated \_\_\_\_\_ June 18 19 84

All publication costs having been paid.

Marshall Stinson

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_ 19 84

De Maris Barnett

Notary Public

My commission expires 2/7/87 19 \_\_\_\_\_



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

June 27, 1984

TONEY ANAYA  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88240  
(505) 393-6161

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	_____ X _____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Energy Reserves Group, Inc.	Taylor	No. 1-C	11-6-33
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

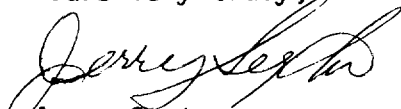
O.K.-----J.S.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Yours very truly,

  
Jerry Sexton  
Supervisor, District 1

/mc