

Sp. - 68
See Sp. 2

AGUA, INC.

POST OFFICE BOX 1978
HOBBS, NEW MEXICO
88240

TELEPHONE: AC 505 393-2417

1967 AUG 18 PM 1 07

August 18, 1967

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Goodwin Waste Water
System Well No. E-31

Gentlemen:

Attached is Application to Dispose of Salt Water by Injection into a Porous Formation for Agua, Inc. Goodwin Waste Water Well No. E-31 located in the SW/4 NW/4 Section 31, Township 18 South, Range 37 East, Lea County, New Mexico. This well was a dry hole drilled by Amerada Petroleum Corporation as their State "WME" No. 3.

All the producing wells within a two mile radius are producing from the Queen and above, or the Drinkard and below. The proposed disposal zone from 4460 to 6900 feet will be the San Andres, Delaware, Bone Springs and Clearfork.

If this application cannot be approved administratively, please place it on the next docket for an examiner hearing.

Yours very truly,

AGUA, INC.

W. G. Abbott

W. G. Abbott
Manager

WGA/aj

NEW MEXICO OIL CONSERVATION COMMISSION

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

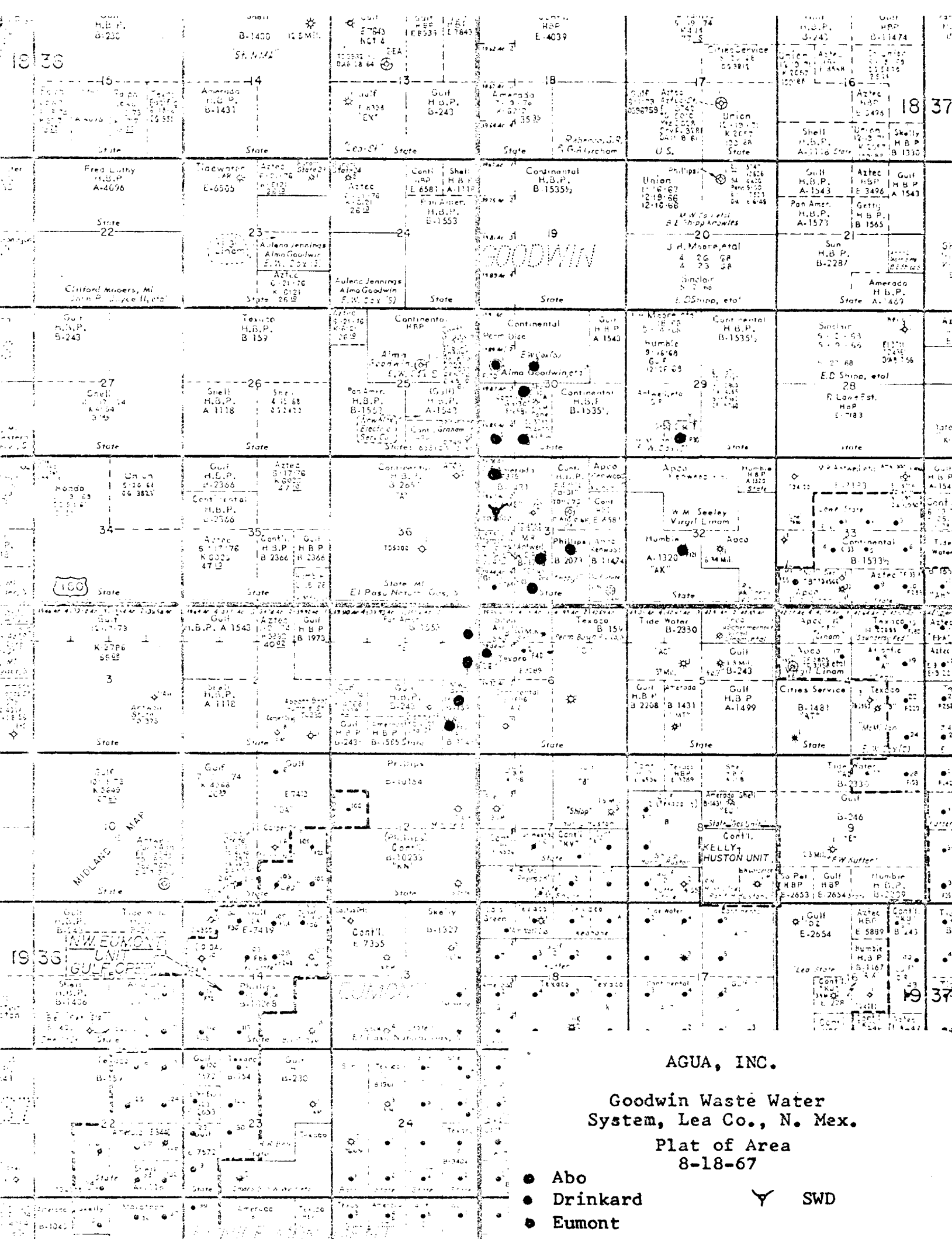
OPERATOR Agua, Inc.		ADDRESS Box 1978, Hobbs, New Mexico 88240	
LEASE NAME Goodwin Waste Water Disposal	WELL NO. E-31	FIELD Goodwin	COUNTY Lea
LOCATION UNIT LETTER E ; WELL IS LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE, SECTION 31 TOWNSHIP 18 S RANGE 37 E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8"	325'	400	Circulated	
INTERMEDIATE	9 5/8"	2948'	850	379'	Amerado - Temp. Survey
XXXXXX Liner (proposed)	7"	2910-4460'	300(proposed)		
TUBING Plastic Lined (proposed)	5 1/2"	4460'	none	NAME, MODEL AND DEPTH OF TUBING PACKER	
NAME OF PROPOSED INJECTION FORMATION			TOP OF FORMATION		BOTTOM OF FORMATION
San Andres, Delaware, Bone Spring, Clearfork San Andres			4458		Top Drinkard 7130
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?		PROPOSED INTERVAL(S) OF INJECTION	
Tubing		open hole		4460' - 6900'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL?		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
no		Oil-dry hole-Amerada Pet. Corp. WME #3			No
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					
none					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA	
200		4100 (Queen)		7130 (Drinkard)	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	
	1800	12000	closed	Gravity	
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 -			WATER TO BE DISPOSED OF	NATURAL WATER IN DISPOSAL ZONE	ARE WATER ANALYSES ATTACHED?
			no	no	yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Amerada Pet. Corp. Box 668, Hobbs, New Mexico 88240					
Continental Oil Co. Box 460, Hobbs, New Mexico 88240					
Mr. Antweil Box 2010 Hobbs, New Mexico 88240					
Phillips Pet. Co., Phillips Bldg., 4th & Washington, Odessa, Texas					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
yes		State of New Mexico		yes (above)	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
		yes		yes	
				yes	

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

W. H. Abbott
(Signature)**Manager, AGUA, INC.**
(Title)**August 18, 1967**
(Date)

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.



AGUA, INC.

Goodwin Waste Water
System, Lea Co., N. Mex.

Plat of Area
8-18-67

- Abo
- Drinkard
- Eumont

SWD

AGUA, INC.
SWD Well E-11
SW 1/4 NW 1/4 Sec. 31
T 18 S, R 37 E
Lea Co., New Mexico

13 3/8" @ 325'
(Cement Circulated)

5 1/2" Plastic-Lined
Tubing to 4460'

9 5/8" @ 2948'
(Cement top-379')

Proposed Liner 7"
from 2910' to 4460'

Plug at 6900'

Total Depth 7602'

EXHIBIT "B"

FORMATION WATER ANALYSES
Parts Per Million

Sodium, Na	19,230
Calcium, Ca	2,640
Magnesium, Mg	585
Sulfate, SO ₄	3,800
Chloride, Cl	33,000
Bicarbonate, HCO ₃	490

pH	5.4
Specific Gravity	1.045
Iron	Nil
Hydrogen Sulfide	Large Amount

Sample taken by Halliburton from the Abo zone of the
Amerada St. WME No. 2

August 25, 1967

Agua, Inc.
Box 1978
Hobbs, N. M. 88240

Attn. Mr. W. G. Abbott, Manager

Gentlemen:

Receipt of your application to dispose of salt water by injection into an existing well identified as Amerada Petroleum Corporation's WME #3 is hereby acknowledged.

It is noted that only one water analyses is attached to the application. This analyses indicates a high concentration of total dissolved solids, but your application on Form C-108 indicates that neither the water to be disposed of, or the natural water in the disposal zone, are mineralized to such a high degree.

67 AUG 28 11 00 AM

FEI/ma
cc-Oil Conservation Comm.

Yours truly,

S. E. Reynolds
State Engineer

By:
Frank E. Irby
Chief
Water Rights Div.

August 29, 1967

State Engineer Office
State Capitol
Santa Fe, New Mexico 87501

Re: Goodwin Waste Water
System Well No. E-31

Gentlemen:

Your letter of August 25, 1967 has been received which concerns the quality of water to be injected into the Amerada Petroleum Corporation's WME No. 3.

The application on Form C-108 is incorrect - the water to be disposed and also the natural water are both mineralized to a high degree.

I am glad that you found this error and brought it to our attention.

Yours very truly,

AGUA, INC.



W. G. Abbott
Manager

cc: New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

WGA/a

MAILED 10

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August 22, 1967

United Engineering Division
City Capital
Mexico 20, New Mexico 87501

Re: Location Water
System Well No. 1-31

Dear Sir:

Your letter of August 22, 1967 has been received
and concerning the quality of water to be injected into
the Nevada Petroleum Corporation's WME No. 1.

The application on Form 0-108 is incorrect - the
water to be disposed and also the natural water are both
mineralized to a high degree.

I am glad that you found this error and brought it
to my attention.

Yours very truly,

JOHN, INC.

John, Inc.

J. G. Abbott
Manager

New Mexico and Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501