

Shell Oil Company



P.O. Box 991
Houston, Texas 77001

August 10, 1981

New Mexico Energy and Minerals Department
Oil Conservation Division
ATTN Mr. Joe D. Ramey, Director
P. O. Box 2088
Santa Fe, NM 87501

169

Gentlemen:

APPLICATION FOR AUTHORITY TO INJECT WATER, NORTH HOBBS (G-SA) UNIT,
PRESSURE MAINTENANCE PROJECT, HOBBS (G-SA) FIELD, LEA COUNTY, NEW MEXICO

We have attached Forms C-108 for twenty (20) wells drilled as injectors per administrative Order NSL-1194 dated May 12, 1980. The attached list shows the exact location of the wells as drilled. One well, No. 32-222, was formerly No. 32-212. The well number changed when the location was changed to accomodate the surface owner.

We are requesting administrative approval for authority to inject water into these twenty (20) wells as per Order No. R-6199 dated November 30, 1979.

Very truly yours,

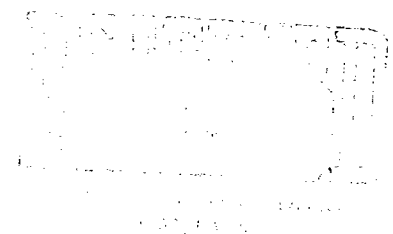
A handwritten signature in cursive script, appearing to read "A. J. Fore".

fr A. J. Fore
Supervisor Regulatory and Permitting
Mid-Continent Division

RWP:BC

Attachments

cc: Jerry Sexton
Supervisor, District I
Hobbs, NM



*All other necessary info
in Case file for Core No. 169*



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

August 13, 1981

Shell Oil Company
P. O. Box 991
Houston, Texas 77001

Gentlemen:

Enclosed herewith please find Administrative Order
PMX-109.

Very truly yours,

A handwritten signature in cursive script, reading "Joe D. Ramey".

JOE D. RAMEY
Division Director

JDR/og

cc: Oil Conservation Division
Box 1980
Hobbs, New Mexico

SHELL ET AL NORTH HOBBS (G-SA) UNIT
NEWLY DRILLED INJECTORS
LEA COUNTY, NEW MEXICO

TOWNSHIP 18 SOUTH, RANGE 37 EAST, NMPM

<u>Sec.</u>	<u>Unit Well No.</u>	<u>Unit Letter</u>	<u>Location</u>
24	242	N	1300' FSL and 2600' FWL
25	422	H	1550' FNL and 1300' FEL

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM

<u>Sec.</u>	<u>Unit Well No.</u>	<u>Unit Letter</u>	<u>Location</u>
18	242	N	1200' FSL and 2600' FWL
19	142	M	1200' FSL and 1300' FWL
20	233	K	1610' FSL and 1850' FWL
28	422	H	2199' FNL and 772' FEL
29	222	F	1370' FNL and 1850' FWL
29	132	L	1623' FSL and 1218' FWL
30	222	F	1470' FNL and 1395' FWL
30	232	K	1400' FSL and 1370' FWL
30	422	H	1520' FNL and 1300' FEL
30	442	P	1300' FSL and 1050' FEL
31	312	B	1262' FNL and 1520' FEL
32	132	L	1400' FSL and 1300' FWL
32	222	F	1720' FNL and 1370' FWL
32	323	G	1370' FNL and 1400' FEL
32	432	I	1400' FSL and 1300' FEL
33	222	F	1520' FNL and 1470' FWL
33	232	K	1595' FSL and 1370' FWL
33	322	G	1385' FNL and 1820' FEL

NORTH HOBBS (G/SA) UNIT
SURFACE OWNERS OF WELL SITE(S)

24-242	State Land - Leased to Alice H. Cushing
25-422	c/o Charlie Seed
30-232	424 W. Broadway
	Hobbs, NM 88240
18-242	Leon Hayl
	1008 E. Clinton
	Hobbs, NM 88240
19-142	Thomason Construction, Co.
	1201 W. Bender Blvd.
	Hobbs, NM 88240
20-233	O. L. Harris
	West County Road
	Hobbs, NM 88240
28-422	K&S Electric
	1901 N. Grimes
	Hobbs, NM 88240
29-132	W. C. Grimes Estate
29-222	First Interstate Bank
30-442	Trust Dept.
32-132	220 W. Broadway
32-222	Hobbs, NM 88240
32-323	ATTN: Jim Hill
32-432	
30-222	Verna B. Matthew
	West Bender Blvd.
	Hobbs, NM 88240
30-422	Cecil J. Taylor
	Goins Addition
	Hobbs, NM 88240
31-312	Clara Fowler
	c/o Vernon R. Jones
	West Sanger
	Hobbs, NM 88240
33-222	State Land - Not leased
33-232	
33-322	Hobbs Public Schools
	1515 E. Sanger
	Hobbs, NM 88240
	ATTN: Dr. Bill Lee

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 19	WELL NO. 142	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>M</u> ; WELL IS LOCATED <u>1200</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>1300</u> FEET FROM THE <u>WEST</u> LINE, SECTION <u>19</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	875 sx	SURFACE	CIRC
LONG STRING (14#)	5 1/2"	4510'	900 sx	SURFACE	CIRC.
TUBING	2 7/8"	4021'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4021'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES	TOP OF FORMATION 4018'	BOTTOM OF FORMATION 4510'
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING	PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4110' - 4272'
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IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	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
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LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3421'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5440'
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ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 200	MINIMUM 5000	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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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 - YES	WATER TO BE DISPOSED OF YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO
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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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
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ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

A. J. FORE SUPERVISOR REGULATORY & PERMITTING AUGUST 11, 1981
(Signature) (Title) (Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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. 22-200-701.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 20	WELL NO. 233	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>K</u> WELL IS LOCATED <u>1610</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>1850</u> FEET FROM THE <u>WEST</u> LINE. SECTION <u>20</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1500'	850 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	1050 sx	SURFACE	CIRC.
TUBING	2 7/8"	4168'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4168'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4170'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
TUBING		PERFORATIONS	4258' - 4292'
IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?		HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
YES			NO

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 210'			DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3522'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5509'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77	
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 YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO	

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL

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

A. J. FORE

SUPERVISOR REGULATORY & PERMITTING

AUGUST 11, 1981

(Signature)

(Title)

(Date)

NOTE: Should waters from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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-B.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 18	WELL NO. 242	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>N</u> WELL IS LOCATED <u>1200</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>2600</u> FEET FROM THE WEST LINE, SECTION 18 TOWNSHIP 18-S RANGE 38-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	(COND.) 16"	40'		SURFACE	CIRC.
INTERMEDIATE	(24#) 8 5/8"	1600'	875 sx	SURFACE	CIRC
LONG STRING	(14#) 5 1/2"	4510'	900 sx	1200'	CBL
TUBING	2 7/8"	4069'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4069'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES	TOP OF FORMATION 4068'	BOTTOM OF FORMATION 4510'
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLES?	PROPOSED INTERVAL(S) OF INJECTION
TUBING	PERFORATIONS	4150' - 4326'

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?
YES		NO

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3457'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5336'
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ANTICIPATED DAILY INJECTION VOLUME (BBL/D)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
	200	5000	CLOSED	PRESSURE	MEMO 3-77

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?
	YES	YES	NO

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG
		DIAGRAMMATIC SKETCH OF WELL

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

J. S. Fore
A. J. FORE
(Signature)

SUPERVISOR REGULATORY & PERMITTING
(Title)

AUGUST 11, 1981
(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 24	WELL NO. 242	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER N ; WELL IS LOCATED 1300 FEET FROM THE SOUTH LINE AND 2600 FEET FROM THE WEST LINE. SECTION 24 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 (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	785 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4443'	1250 sx	SURFACE	CIRC.
TUBING 2 7/8"	4120'	NAME, MODEL AND DEPTH OF TUBING PACKER SUIBERSON UNI-PACKER VI @4120'			

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4090'	BOTTOM OF FORMATION 4443'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4209' - 4280'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	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

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3489'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5518'
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 200	MINIMUM 5000	MAXIMUM 5000
OPEN OR CLOSED TYPE SYSTEM CLOSED		IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE
APPROX. PRESSURE (PSI) MEMO 3-77		
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 - YES		ARE WATER ANALYSES ATTACHED? NO

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA	ELECTRICAL LOG
		DIAGRAMMATIC SKETCH OF WELL

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

A. J. Fore **A. J. FORE** **SUPERVISOR REGULATORY & PERMITTING** **AUGUST 11, 1981**
(Signature) (Title) (Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division's Santa Fe office. If no protest is received, the application will be processed.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 25	WELL NO. 422	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>H</u> : WELL IS LOCATED <u>1550</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1300</u> FEET FROM THE <u>EAST</u> LINE, SECTION <u>25</u> TOWNSHIP <u>18-S</u> RANGE <u>37-E</u> NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	850 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	1000 sx	SURFACE	CIRC.
TUBING	2 7/8"	3970'	NAME, MODEL AND DEPTH OF TUBING PACKER GUILBERSON UNI-PACKER VI @3970'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4034'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4170' - 4294'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	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
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH -----			

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3462'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5481'
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED
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 -----		IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE
WATER TO BE DISPOSED OF YES		NATURAL WATER IN DISPOSAL ZONE YES
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) -----		APPROX. PRESSURE (PSI) MEMO 3-77
ARE WATER ANALYSES ATTACHED? NO		

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL 			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? -----		SURFACE OWNER -----	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)? -----		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL -----	
PLAT OF AREA -----		ELECTRICAL LOG -----	
-----		DIAGRAMMATIC SKETCH OF WELL -----	

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

J. V. Fore A. J. FORE SUPERVISOR REGULATORY & PERMITTING AUGUST 11, 1981
(Signature) (Title) (Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001			
LEASE NAME SECTION 28	WELL NO. 422	FIELD HOBBS (G/SA)	COUNTY LEA		
LOCATION UNIT LETTER <u>H</u> ; WELL IS LOCATED <u>2199</u> FEET FROM THE <u>NORTH</u> LINE AND <u>772</u> FEET FROM THE EAST LINE, SECTION 28 TOWNSHIP 18-S RANGE 38-E NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	850 SX	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4503'	1050 SX	SURFACE	CIRC.
TUBING	2 7/8"	4132'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4132'		
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4150'		BOTTOM OF FORMATION 4503'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES		PROPOSED INTERVAL(S) OF INJECTION	
TUBING		PERFORATIONS		4222' - 4271'	
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?	
YES				NO	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 215'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3511'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5449'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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		
			YES		
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)			ARE WATER ANALYSES ATTACHED?		
			YES		
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAT OF AREA		ELECTRICAL LOG	
				DIAGRAMMATIC SKETCH OF WELL	

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


(Signature)

A. J. FORE

SUPERVISOR REGULATORY & PERMITTING
(Title)AUGUST 11, 1981
(Date)

NOTE: Should waters from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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. SEP 1981 # 201.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 29	WELL NO. 132	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>L</u> ; WELL IS LOCATED <u>1623</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>1218</u> FEET FROM THE WEST LINE, SECTION <u>29</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	785 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	900 sx	100'	CBL
TUBING	2 7/8"	4000'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4000		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 3976'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
TUBING		PERFORATIONS	4071' - 4318'
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?
YES			NO

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 210'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3364'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5367'	
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.)	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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 YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG
		DIAGRAMMATIC SKETCH OF WELL

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

A. J. FORE SUPERVISOR REGULATORY & PERMITTING AUGUST 11, 1981
(Signature) (Title) (Date)

NOTE: Should owners from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division's Santa Fe office. If the application is not received by the Division's Santa Fe office within the 15-day period, the application will be considered withdrawn.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 29	WELL NO. 222	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER F I WELL IS LOCATED 1370 FEET FROM THE NORTH LINE AND 1850 FEET FROM THE WEST LINE. SECTION 29 TOWNSHIP 18-S RANGE 38-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1605'	850 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	1425 sx	SURFACE	CIRC.
TUBING	2 7/8"	4095'	NAME, MODEL AND DEPTH OF TUBING PACKER GUBERSON UNI-PACKER VI @4095		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES	TOP OF FORMATION 4095'	BOTTOM OF FORMATION 4510'
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
TUBING	PERFORATIONS	4174' - 4264'

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?
YES		YES

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

1626' (4 JSPF), 425 sx

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 210'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3427'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5412'
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ANTICIPATED DAILY INJECTION VOLUME (BBL/D.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
	200	5000	CLOSED	PRESSURE	MEMO 3-77

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?
	YES	YES	NO

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
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ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

J. J. Fore
(Signature)

A. J. FORE

SUPERVISOR REGULATORY & PERMITTING
(Title)

AUGUST 11, 1981
(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division's Santa Fe office. If no protest is received by the Santa Fe office, the application will be processed. If a protest is received,

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 30	WELL NO. 222	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>F</u> WELL IS LOCATED <u>1470</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1395</u> FEET FROM THE WEST LINE, SECTION 30 TOWNSHIP 18-S RANGE 38-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1570'	950 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4349'	800 sx	350 sx	CBL
TUBING	2 7/8"	4050'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4050'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES	TOP OF FORMATION 4030'	BOTTOM OF FORMATION 4349'
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING	PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4123' - 4229'
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IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? -----	HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? NO
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LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 215'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3423'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5435'
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ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 200	MINIMUM 5000	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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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 YES	WATER TO BE DISPOSED OF YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO
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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

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			

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG
		DIAGRAMMATIC SKETCH OF WELL

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

J. J. Fore A. J. FORE SUPERVISOR REGULATORY & PERMITTING AUGUST 11, 1981
(Signature) (Title) (Date)

NOTE: Should waters from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division's Santa Fe office. If the application is not accompanied by the required information, it will be considered withdrawn if no contact is received.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 30	WELL NO. 232	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>K</u> WELL IS LOCATED <u>1400</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>1370</u> FEET FROM THE <u>WEST</u> LINE, SECTION <u>30</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	875 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4555'	1100 sx	400'	CBL
TUBING	2 7/8"	4080'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4080'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES	TOP OF FORMATION 4087'	BOTTOM OF FORMATION 4555'
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
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TUBING	PERFORATIONS	4170' - 4310'
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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?
YES		NO

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 215	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3427'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5429'
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ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
	200	5000	CLOSED	PRESSURE	MEMO 3-77

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?
	YES	YES	NO

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?

ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?

PLAT OF AREA

ELECTRICAL LOG

DIAGRAMMATIC SKETCH OF WELL

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)

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

J. A. Fore
(Signature) A. J. FORE

SUPERVISOR REGULATORY & PERMITTING
(Title)

AUGUST 11, 1981
(Date)

NOTE: Should waters from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 30	WELL NO. 422	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>H</u> WELL IS LOCATED <u>1520</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1300</u> FEET FROM THE <u>EAST</u> LINE, SECTION <u>30</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1524'	850 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	1000 sx	SURFACE	CIRC.
TUBING	2 7/8"	4030'	NAME, MODEL AND DEPTH OF TUBING PACKER GUBERSON UNI-PACKER VI @4030'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4026'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4108' - 4265'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	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
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH -----			

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 215'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3403'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5402'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 200	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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 YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO
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					

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
				DIAGRAMMATIC SKETCH OF WELL	

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

A. J. Fore 70 SUPERVISOR REGULATORY & PERMITTING AUGUST 11, 1981
(Signature) (Title) (Date)

NOTE: Should waters from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 30	WELL NO. 442	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER P WELL IS LOCATED 1300 FEET FROM THE SOUTH LINE AND 1050 FEET FROM THE EAST LINE, SECTION 30 TOWNSHIP 18-S RANGE 38-E NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING (COND.)	16"	40'	
INTERMEDIATE (24#)	8 5/8"	1606'	850 sx
LONG STRING (14#)	5 1/2"	4510'	1075 sx
TUBING	2 7/8"	4030'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4030'
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 3997'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
TUBING		PERFORATIONS	4110' - 4252'
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?
YES			NO
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 215		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3387'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5397'
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED
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 YES	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE
		NATURAL WATER IN DISPOSAL ZONE YES	APPROX. PRESSURE (PSI) MEMO 3-77
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)		ARE WATER ANALYSIS ATTACHED? NO	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		ELECTRICAL LOG	
		DIAGRAMMATIC SKETCH OF WELL	

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

J. J. Fore
(Signature)

A. J. FORE
(Title)

AUGUST 11, 1981
(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 31	WELL NO. 312	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>B</u> WELL IS LOCATED <u>1262</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1520</u> FEET FROM THE <u>EAST</u> LINE, SECTION <u>31</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1598'	950 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	1050 sx	SURFACE	CIRC.
TUBING 2 7/8"		4067'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4077'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4077'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
TUBING		PERFORATIONS	4150' - 4240'
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?
YES			NO

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH	

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 210'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3399'
DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5403'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 200	MINIMUM 5000
MAXIMUM CLOSED	OPEN OR CLOSED TYPE SYSTEM
IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
PRESSURE	MEMO 3-77
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
YES	YES
	NO

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

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)	

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA	ELECTRICAL LOG
		DIAGRAMMATIC SKETCH OF WELL

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

A. J. FORE SUPERVISOR REGULATORY & PERMITTING AUGUST 11, 1981
(Signature) (Title) (Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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. SEP 1981 - 701.

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

OPERATOR SHELL OIL COMPANY			ADDRESS P. O. BOX 991, HOUSTON, TX 77001		
LEASE NAME SECTION 32		WELL NO. 132	FIELD HOBBS (G/SA)		COUNTY LEA
LOCATION UNIT LETTER L WELL IS LOCATED 1400 FEET FROM THE SOUTH LINE AND 1300 FEET FROM THE WEST LINE. SECTION 32 TOWNSHIP 18-S RANGE 38-E NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1550'	875 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4510'	1275 sx	SURFACE	CIRC.
TUBING 2 7/8"		NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4008'			
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES			TOP OF FORMATION 3998'	BOTTOM OF FORMATION 4510'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES?	PROPOSED INTERVAL(S) OF INJECTION		
TUBING		PERFORATIONS	4092' - 4254'		
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?	
YES				NO	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3377'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5325'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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 YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO
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					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAT OF AREA		ELECTRICAL LOG	
				DIAGRAMMATIC SKETCH OF WELL	

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

(Signature)

A. J. FORE

SUPERVISOR REGULATORY & PERMITTING
(Title)

AUGUST 11, 1981
(Date)

NOTE: Should answers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 15 days from the date of receipt by the Division'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. SEP. 8-11-76.

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001				
LEASE NAME SECTION 32	WELL NO. 222	FIELD HOBBS (G/SA)	COUNTY LEA			
LOCATION UNIT LETTER <u>F</u> I WELL IS LOCATED <u>1720</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1370</u> FEET FROM THE <u>WEST</u> LINE, SECTION <u>32</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> N.M.P.M.						
CASING AND TUBING DATA						
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY	
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.	
INTERMEDIATE (24#)	8 5/8"	1607'	800 sx	SURFACE	CIRC.	
LONG STRING (14#)	5 1/2"	4510'	900 sx	750'	CBL	
TUBING	2 7/8"	4006'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4006'			
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 4005'		BOTTOM OF FORMATION 4510'		
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES?		PROPOSED INTERVAL(S) OF INJECTION		
TUBING		PERFORATIONS		4090' - 4258'		
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?		
YES				NO		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3371'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5333'		
ANTICIPATED DAILY INJECTION VOLUME (BBLS./D)	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77	
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 YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO	
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						
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		FLAT OF AREA		ELECTRICAL LOG		DIAGRAMMATIC SKETCH OF WELL

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

A. J. FORE

SUPERVISOR REGULATORY & PERMITTING

AUGUST 11, 1981

(Signature)

(Title)

(Date)

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 32	WELL NO. 323	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER G ; WELL IS LOCATED 1370 FEET FROM THE NORTH LINE AND 1400 FEET FROM THE EAST LINE, SECTION 32 TOWNSHIP 18-S RANGE 38-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1600'	1100 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4400'	820 sx	SURFACE	CIRC.
TUBING 2 7/8"		3974'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @3974'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 3973'	BOTTOM OF FORMATION 4400'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4062' - 4332'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	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

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3350'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5332'
-------------------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------------------------------------------------

ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 200	MINIMUM 5000	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) MEMO 3-77
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 YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? NO

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

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	PLAT OF AREA	ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL

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

A. J. Fore
(Signature)

A. J. FORE
(Title)
SUPERVISOR REGULATORY & PERMITTING

AUGUST 11, 1981
(Date)

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 32	WELL NO. 432	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER I WELL IS LOCATED 1400 FEET FROM THE SOUTH LINE AND 1300 FEET FROM THE EAST LINE, SECTION 32 TOWNSHIP 18-S RANGE 38-E NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING (COND.)	16"	40'	
INTERMEDIATE (24#)	8 5/8"	1600'	600 sx
LONG STRING (14#)	5 1/2"	4400'	950 sx
TUBING	2 7/8"	3941'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER @3941'
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 3993'	BOTTOM OF FORMATION 4400'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
TUBING		PERFORATIONS	4062' - 4250'
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?
YES			NO
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH			

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 205'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3363'	
DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5288'			
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM
	200	5000	CLOSED
IS INJECTION TO BE BY GRAVITY OR PRESSURE?		APPROX. PRESSURE (PSI)	
PRESSURE		MEMO 3-77	
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	
		YES	
		NO	
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			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAT OF AREA	
		ELECTRICAL LOG	
		DIAGRAMMATIC SKETCH OF WELL	

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

J. E. Fore
(Signature) **A. J. FORE**

SUPERVISOR REGULATORY & PERMITTING
(Title)

AUGUST 11, 1981
(Date)

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 33	WELL NO. 222	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER <u>F</u> WELL IS LOCATED <u>1520</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1470</u> FEET FROM THE <u>WEST</u> LINE, SECTION <u>33</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1622.53'	800 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4400'	1100 sx	SURFACE	CIRC.
TUBING	2 7/8"	3694'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @3694'		

NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 3973'	BOTTOM OF FORMATION 4400'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES	PROPOSED INTERVAL(S) OF INJECTION
TUBING		PERFORATIONS	4062' - 4276'
IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?		HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
YES			NO

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH			

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3359'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5503'
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 200	MINIMUM 5000	MAXIMUM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE
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 YES	NATURAL WATER IN DISPOSAL ZONE YES
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)		APPROX. PRESSURE (PSI) MEMO 3-77	
		ARE WATER ANALYSIS ATTACHED? NO	

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
		ELECTRICAL LOG	
		DIAGRAMMATIC SKETCH OF WELL	

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

J. J. Fore
(Signature)

A. J. FORE

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(Title)

AUGUST 11, 1981
(Date)

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SANTA FE, NEW MEXICO 87501

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

OPERATOR SHELL OIL COMPANY			ADDRESS P. O. BOX 991, HOUSTON, TX 77001		
LEASE NAME SECTION 33		WELL NO. 232	FIELD HOBBS (G/SA)		COUNTY LEA
LOCATION UNIT LETTER K ; WELL IS LOCATED 1595 FEET FROM THE SOUTH LINE AND 1370 FEET FROM THE WEST LINE, SECTION 33 TOWNSHIP 18-S RANGE 38-E NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING (COND.)	16"	40'		SURFACE	CIRC.
INTERMEDIATE (24#)	8 5/8"	1590'	800 sx	SURFACE	CIRC.
LONG STRING (14#)	5 1/2"	4439'	750 sx	SURFACE	CIRC.
TUBING	2 7/8"	4008'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @4008'		
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES			TOP OF FORMATION 3972'		BOTTOM OF FORMATION 4439'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES?		PROPOSED INTERVAL(S) OF INJECTION	
TUBING		PERFORATIONS		4050' - 4248'	
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?	
YES				NO	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3352'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5297'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
	200	5000	CLOSED	PRESSURE	MEMO 3-77
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?
			YES	YES	NO
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					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAT OF AREA		ELECTRICAL LOG	
				DIAGRAMMATIC SKETCH OF WELL	

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

A. J. FORE

SUPERVISOR REGULATORY & PERMITTING

AUGUST 11, 1981

(Signature)

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(Date)

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

OPERATOR SHELL OIL COMPANY		ADDRESS P. O. BOX 991, HOUSTON, TX 77001	
LEASE NAME SECTION 33	WELL NO. 322	FIELD HOBBS (G/SA)	COUNTY LEA
LOCATION UNIT LETTER G ; WELL IS LOCATED 1385 FEET FROM THE NORTH LINE AND 1820 FEET FROM THE EAST LINE, SECTION 33 TOWNSHIP 18-S RANGE 38-E NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING (COND.)	16"	40'	
INTERMEDIATE (24#)	8 5/8"	1600'	850 sx
LONG STRING (14#)	5 1/2"	4510'	915 sx
TUBING	2 7/8"	3980'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNI-PACKER VI @3980'
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES		TOP OF FORMATION 3983'	BOTTOM OF FORMATION 4510'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 4058' - 4270'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? YES	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
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH -----			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3380'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5298'
ANTICIPATED DAILY INJECTION VOLUME (BBLS/D) 200	MINIMUM 200	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM CLOSED
IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE		APPROX. PRESSURE (PSI) MEMO 3-77	
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 - YES		WATER TO BE DISPOSED OF YES	NATURAL WATER IN DISPOSAL ZONE YES
ARE WATER ANALYSES ATTACHED? NO			
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 			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? 		SURFACE OWNER 	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) 		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL 	
		ELECTRICAL LOG 	
		DIAGRAMMATIC SKETCH OF WELL 	

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

A. J. Fore
(Signature)

A. J. FORE
(Title)

AUGUST 11, 1981
(Date)

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