

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR OLEN F. FEATHERSTONE		ADDRESS 239 Petroleum Building, Roswell, N.M. 88201	
LEASE NAME Humble 'X'	WELL NO. 1	FIELD NORTH MORTON	COUNTY Lea
LOCATION UNIT LETTER C ; WELL IS LOCATED 510 FEET FROM THE North LINE AND 1830 FEET FROM THE West LINE, SECTION 6 TOWNSHIP 15 South RANGE 35 East , N.M.P.M.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	11-3/4"	335'	300	circulated	
INTERMEDIATE	8-5/8"	4515'	480	2850	calculation
LONG STRING					
TUBING	3"	4500'	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson KVL 30		

NAME OF PROPOSED INJECTION FORMATION San Andres	TOP OF FORMATION 4570'	BOTTOM OF FORMATION 6090'
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing.	PERFORATIONS OR OPEN HOLE? Open Hole	PROPOSED INTERVAL(S) OF INJECTION 4600' to 6000'
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IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil well	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes.
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LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
10,456' to 10,458' - spotted 25 sacks - plug from TD, @ 10,488' to 10,025' and plug back to 6000'

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 345'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 10,456'
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ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 4500	MINIMUM 4500	MAXIMUM 7000	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity - if possible	APPROX. PRESSURE (PSI)
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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 -	WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
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NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)
STATE LAND - Lessee, Lovington National Bank Trustee for Mary Stansell Trust

- LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL
- Humble Oil and Refining Company, P. O. Box 1600, Midland, Texas 79701**
 - Tenneco Oil Company, P. O. Box 1031, Midland, Texas 79701**
 - Union Oil Company of California, 300 Security National Bank, Roswell, N.Mex. 88201**
 - J. M. HUBER, Wilco Building, Midland, Texas 79701 AND**
 - STOLTZ & COMPANY, Box 1714, Midland, Texas 79701**

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes.	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes.	THE NEW MEXICO STATE ENGINEER No.
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA Yes.	ELECTRICAL LOG Yes.	DIAGRAMMATIC SKETCH OF WELL Yes.

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

Charles W. Hicks General Manager June 23, 1969
(Signature) (Title) (Date)

NOTE: Should operators 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.

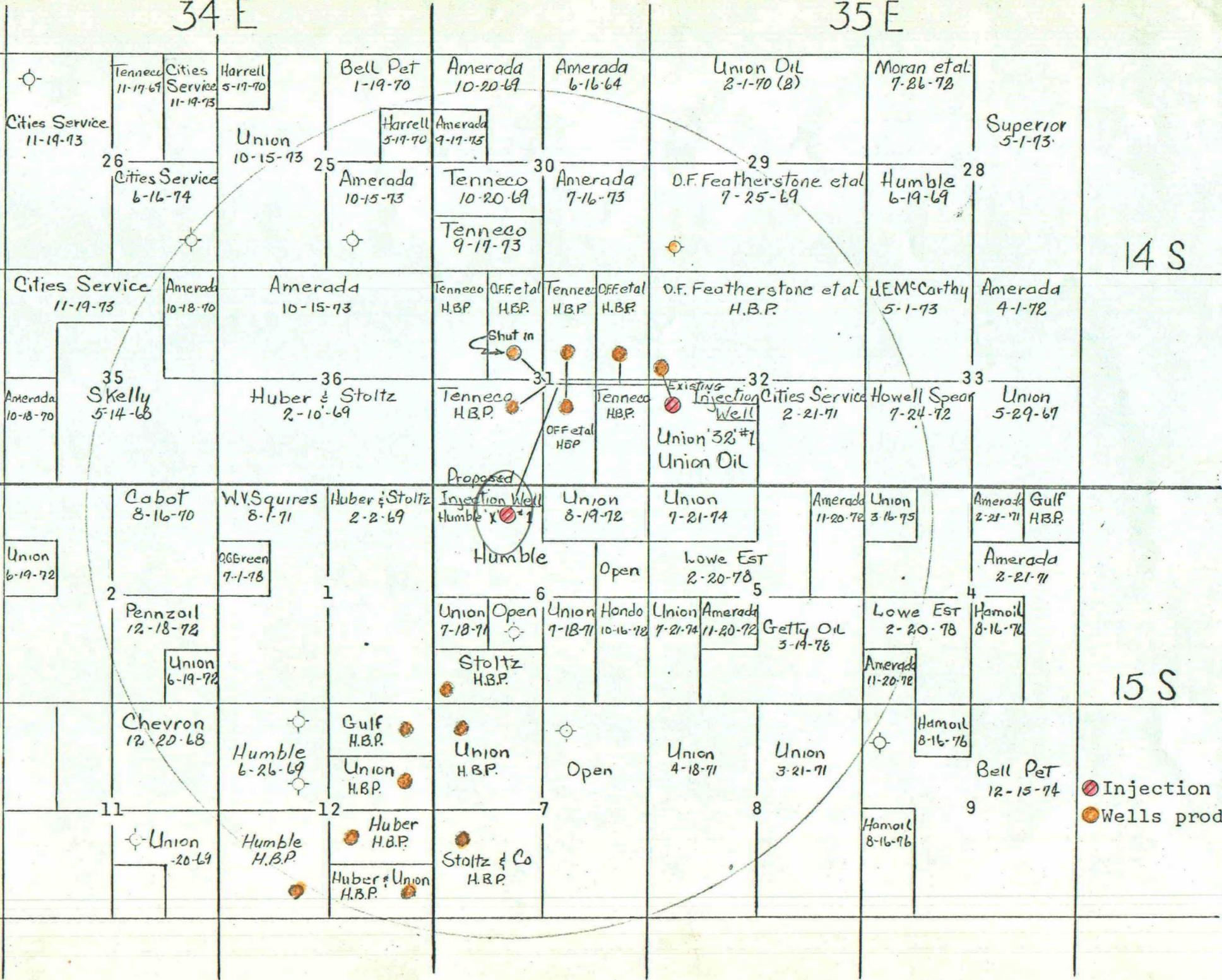
RECEIVED
JUL 2 11 59 AM '69
STATE LAND OFFICE
SANTA FE, N.M.

34 E

35 E

14 S

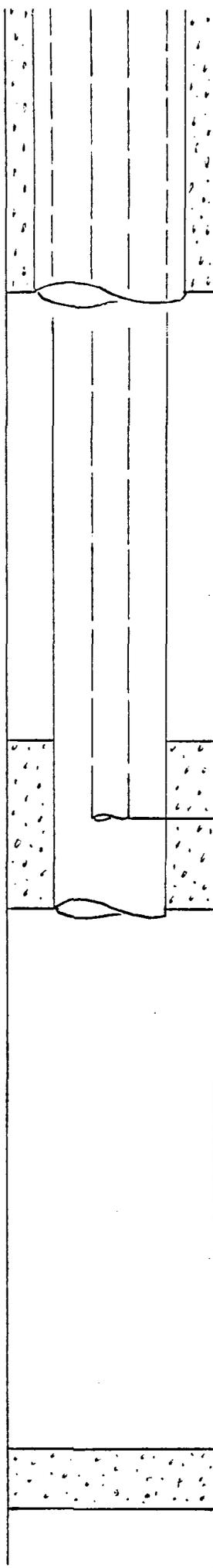
15 S



69 Jul 9 AM 9 07

MAIN OFFICE 000

● Injection Well
● Wells prod. from Permo Penn



11 3/4" OD Csg. 335'^c 300 sx

MAIN OFFICE

'69 JUL 9 AM 9 07

To run 3" tubing to 4000' w/Guiberson
KVL 30 Pkr.

8 5/8" OD Csg. 4515'^c 480 sx
Top San Andres 4570'

San Andres
Top porosity 5500'

OPEN HOLE
Salt Water Injection Zone

Top cement plug 6100'

Glorieta

Olen F. Featherstone, Operator

NORTH MORTON
SALT WATER DISPOSAL WELL

Humble 'X' No. 1 State
510' FNL and 1830' FWL
Section 6, T-15-S, R-35-E, NMPM
Lea County, New Mexico

RECEIVED
JUN 25 9 14 AM '69
STATE FUND OFFICE
SANTA FE, N.M.

Olen F. Featherstone
OIL PRODUCER
ROSWELL PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

June 24, 1969

Union Oil Company of California
300 Security National Bank
Roswell, New Mexico 88201

74528

Re: Salt Water Disposal System,
North Morton Field -
Twp. 14 S., Rge. 35 E., N.M.P.M.,
Lea County, New Mexico

Gentlemen:

With reference to the captioned and in compliance with the New Mexico Oil Conservation Commission's rules and regulations, we enclose herewith for your records one copy of Form C-108 in regard to the Humble 'X' No. 1 State well which is to be used as a supplemental injection well for this disposal system.

If you have no objections to the proposed salt water disposal project as an offset lease owner, please signify your approval by dating and signing two xerox copies of this letter and returning one to this office and forwarding the other to the Commissioner of Public Lands in the enclosed self-addressed envelopes in order that the Oil Conservation Commission may expedite their approval of our application.

Thank you for your understanding and attention to this request.

Very truly yours,

OLEN F. FEATHERSTONE

Charles W. Hicks

Charles W. Hicks
General Manager

APPROVED:

UNION OIL COMPANY OF CALIFORNIA

By _____

Date _____

Encls.

CERTIFIED MAIL, RECEIPT NUMBER 085059, RETURN RECEIPT REQUESTED.

RECEIVED

JUN 25 9 11 AM '69

STATE LAND OFFICE
SANTA FE, N. M.

Olen F. Featherstone
OIL PRODUCER
ROSWELL PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

June 24, 1969

74528

Tenneco Oil Company
Post Office Box 1031
Midland, Texas 79701

Re: Salt Water Disposal System,
North Morton Field -
Twp. 14 S., Rge. 35 E., N.M.P.M.,
Lea County, New Mexico

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Very truly yours,

OLEN F. FEATHERSTONE

Charles W. Hicks

Charles W. Hicks
General Manager

APPROVED:

TENNECO OIL COMPANY

By _____

Date _____

Encls.

CERTIFIED MAIL, RECEIPT NUMBER 085061, RETURN RECEIPT REQUESTED.

RECEIVED

JUN 25 5 11 AM '69

STATE LAND OFFICE
SANTA FE, N. M.

Olen F. Featherstone
OIL PRODUCER
ROSWELL PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

RECEIVED

June 24, 1969

JUN 30 9 33 AM '69

STATE LAND OFFICE
SANTA FE, N. M.

Humble Oil and Refining Company
Post Office Box 1600
Midland, Texas 79701

Re: Salt Water Disposal System,
North Morton Field -
Twp. 14 S., Rge. 35 E., N.M.P.M.,
Lea County, New Mexico

Gentlemen:

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Very truly yours,

OLEN F. FEATHERSTONE

Charles W. Hicks

Charles W. Hicks
General Manager

APPROVED:

HUMBLE OIL AND REFINING COMPANY

By *W. R. ...*

Date *6/27/69*

Encls.

Olen F. Featherstone
OIL PRODUCER
ROSWELL PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

RECEIVED

JUN 30 9 33 AM '69

June 24, 1969

STATE LAND OFFICE
SANTA FE, N. M.

J. M. Huber
Wilco Building
Midland, Texas 79701

Stoltz & Company
Post Office Box 1714
Midland, Texas 79701



Re: Salt Water Disposal System,
North Morton Field -
Twp. 14 S., Rge. 35 E., N.M.P.M.,
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Very truly yours,

OLEN F. FEATHERSTONE

Charles W. Hicks

Charles W. Hicks
General Manager

APPROVED:

J. M. HUBER

STOLTZ & COMPANY

By _____

By *Jack E. Brown*

Date _____

Date *6-27-69*

Encls.

Olen F. Featherstone
OIL PRODUCER
ROSWELL PETROLEUM BUILDING
ROSWELL, NEW MEXICO 88201

June 24, 1969

RECEIVED
JUL 25 9 14 AM '69
515
SANTA FE, N. M.

J. M. Huber
Wilco Building
Midland, Texas 79701

~~Stoltz & Company~~
Post Office Box 1714
Midland, Texas 79701

Re: Salt Water Disposal System,
North Morton Field -
Twp. 14 S., Rge. 35 E., N.M.P.M.,
Lea County, New Mexico

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OLEN F. FEATHERSTONE



Charles W. Hicks
General Manager

APPROVED:

J. M. HUBER

STOLTZ & COMPANY

By *J. M. Huber*

By _____

Date 7/24/69

Date _____

Encls.

CERTIFIED MAIL, RECEIPT NUMBER 085062, RETURN RECEIPT REQUESTED.



COMPANY HANAGAN
 Petroleum Corporation
 WELL Humble "X" # 1
 FIELD NORTH MORTON
 COUNTY LEA STATE NEW MEXICO

Location
1830' FWL & 510' FNL
 Sec. 6 Twp 15-S Rge 35-E

Other Services:
Ind - El Contact Caliper

Permanent Datum Ground Level Elev. 4052'
 Log Measured From K. B. - 13 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elev.: K.B. 4065'
 D.F. 4064'
 G.L. 4052'

Date	9/19/68			
Run No.	- One -			
Depth-Driller	10,483			
Depth-Welex	10,488			
Btm. Log Inter.	10,482			
Top Log Inter.	Surface			
Casing-Driller	8-3/8" @ 4,515	@	@	@
Casing-Welex	4,511			
Bit Size	7-7/8"			
Type Fluid in Hole	Water (No Circulation) Hole drilled with water			
Dens. Visc.				
pH Fluid Loss	ml	ml	ml	ml
Source of Sample	Pit (No Circulation)			
R _{int} @ Meas. Temp.	3.8 @ 66 °F	@ °F	@ °F	@ °F
R _{int} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R _{int} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source R _{int} R _{inc}				
R _{int} @ BHT	1.80 @ 147°F	@ °F	@ °F	@ °F
Time Since Circ.				
Max. Rec. Temp.	147°F @ B. H.	°F @	°F @	°F @
Equip. Location	8444 Hobbs			
Recorded By	Ayres			
Witnessed By	Mr. Hanagan & Mr. Brunson			