

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

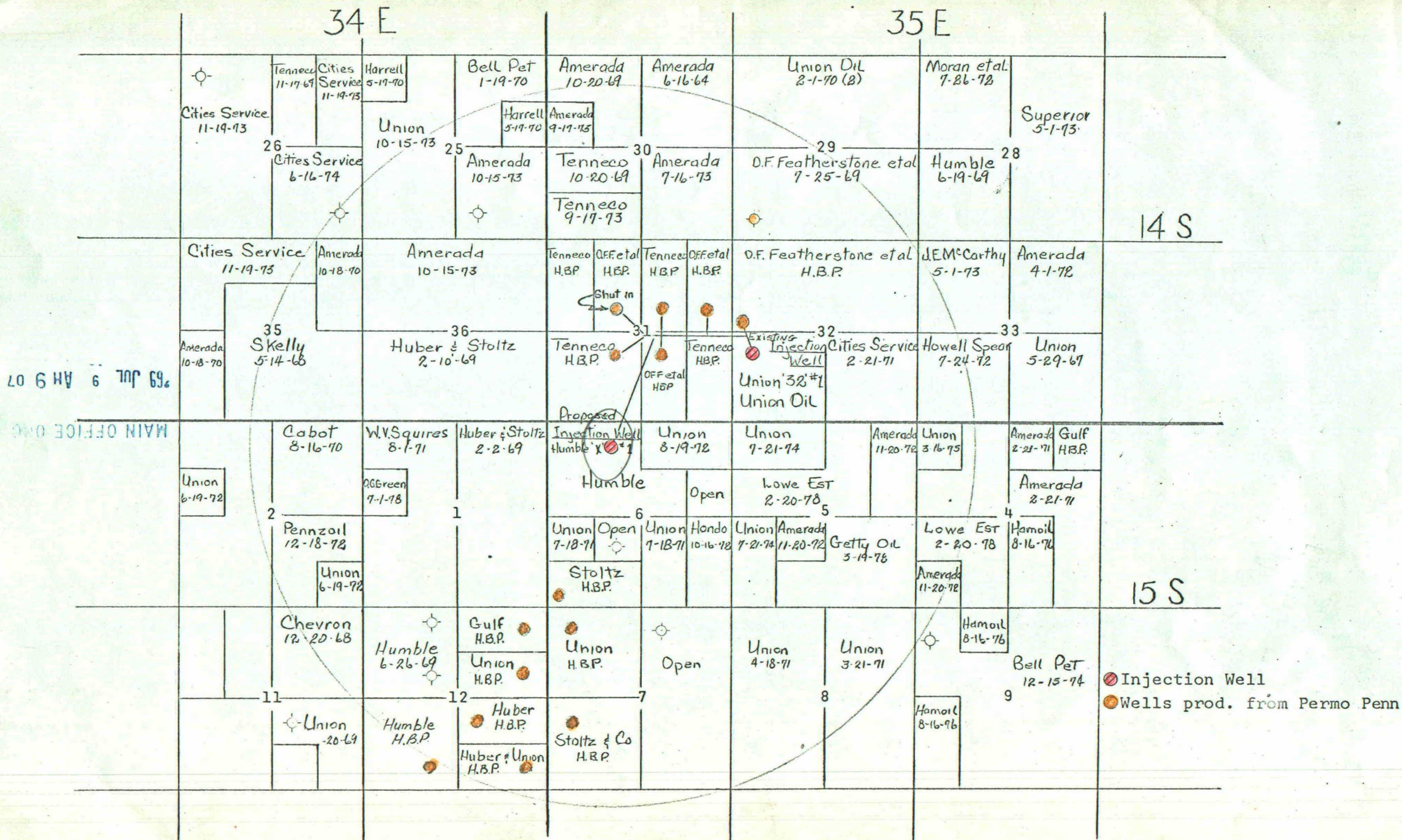
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	11-3/4"	335'	300	circulated	
INTERMEDIATE	8-5/8"	4515'	480	2850	calculation
LONG STRING					
TUBING	3"	4500'	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson KVL 30		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 4570'		BOTTOM OF FORMATION 6090'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing.		PERFORATIONS OR OPEN HOLE? Open Hole	PROPOSED INTERVAL(S) OF INJECTION 4600' to 6000'		
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.	
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'	
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)
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? Yes
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.

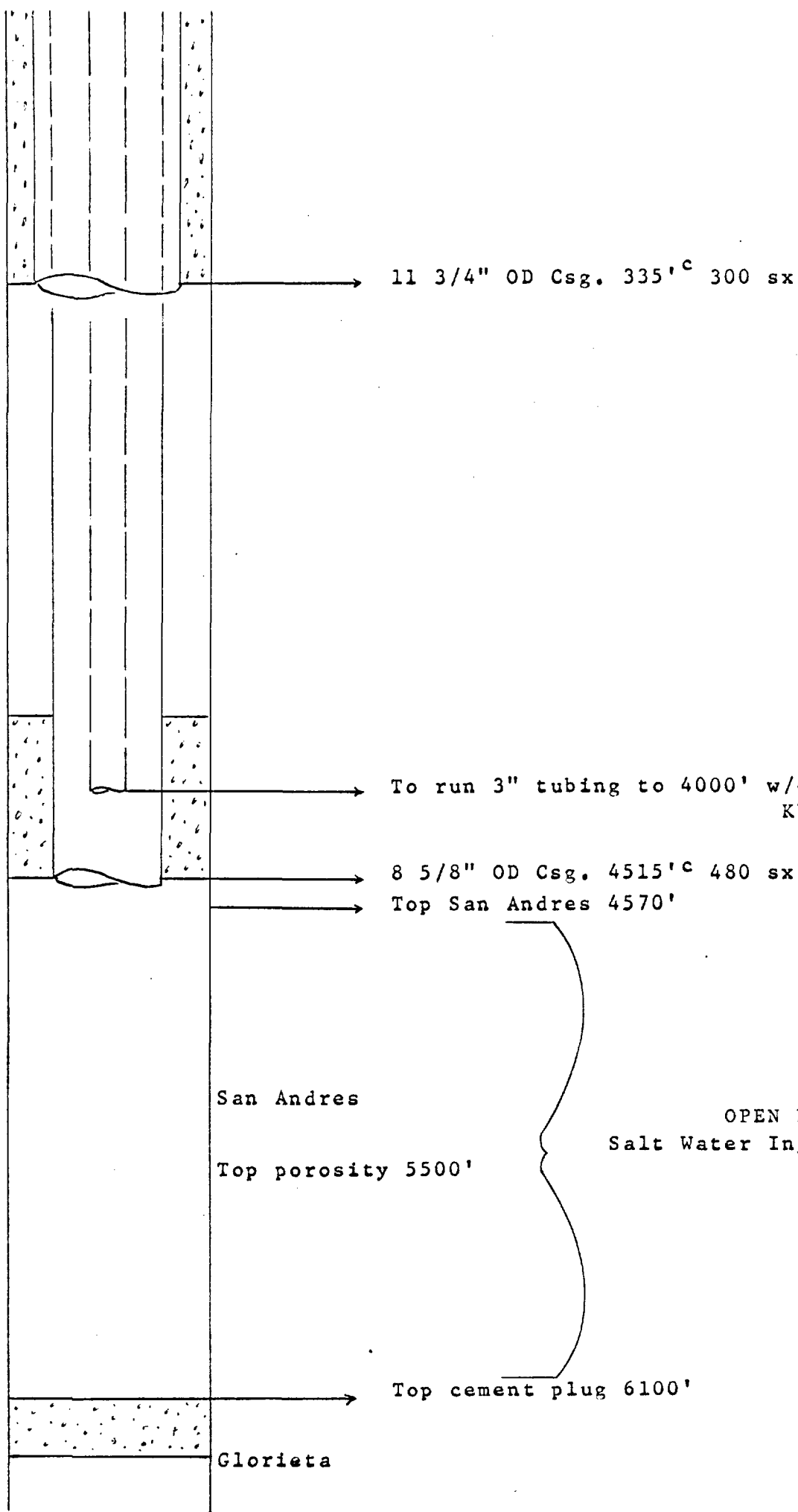
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

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

NOTE: Should answers 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.





MAIN OFFICE

'69 JUL 9 AM 9 07

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 19 AM '69
STATE BOARD OFICE
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

74628

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

74628

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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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 9 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

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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. A. Ranger*

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 -
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OLEN F. FEATHERSTONE

Charles W. Hicks

Charles W. Hicks
General Manager

APPROVED:

J. M. HUBER

By _____

Date _____

STOLTZ & COMPANY

By *Jack E. Brown*

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
SANTA FE, N. M.

J. M. Huber
Wilco Building
Midland, Texas 79701

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

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North Morton Field -
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OLEN F. FEATHERSTONE

Charles W. Hicks

Charles W. Hicks
General Manager

APPROVED:

J. M. HUBER

STOLTZ & COMPANY

By *Joseph Hummel*

By _____

Date 7/24/69

Date _____

Encls.

CERTIFIED MAIL, RECEIPT NUMBER 085062, RETURN RECEIPT REQUESTED.

COMPANY <u>HANAGAN</u> Petroleum Corporation WELL <u>Humble "X" # 1</u> FIELD <u>North Morton</u> County <u>Lea</u> State <u>N.M.</u>	COMPANY <u>HANAGAN PETROLEUM CORPORATION</u>			
	WELL <u>HUMBLE "X" # 1</u>			
	FIELD <u>NORTH MORTON</u>			
	COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u>			
	Location <u>1830' FWL & 510' ENL</u>		Other Services: Ind - El Contact Caliper	
Sec. <u>6</u> Twp <u>15-S</u> Rge <u>35-E</u>				
Permanent Datum <u>Ground Level</u> Elev. <u>4052'</u>		Elev.: K.B. <u>4065'</u>		
Log Measured From <u>K. B. - 13</u> Ft. Above Perm. Datum		D.F. <u>4064'</u>		
Drilling Measured From <u>Kelly Bushing</u>		G.I. <u>4052'</u>		
Date	<u>9/19/68</u>			
Run No.	<u>- One -</u>			
Depth-Driller	<u>10,483</u>			
Depth-Welex	<u>10,488</u>			
Btm. Log Inter.	<u>10,482</u>			
Top Log Inter.	<u>Surface</u>			
Casing-Driller	<u>8-3/8" @ 4,515</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Welex	<u>4,511</u>			
Bit Size	<u>7-7/8"</u>			
Type Fluid in Hole	<u>Water (No Circulation)</u>			
	<u>Hole drilled with water</u>			
Dens. Visc.	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
pH Fluid Loss	<u>1</u> ml	<u>1</u> ml	<u>1</u> ml	<u>1</u> ml
Source of Sample	<u>Pit (No Circulation)</u>			
R _{int} @ Meas. Temp.	<u>3.8 @ 66 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
R _{int} @ Meas. Temp.	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
R _{int} @ Meas. Temp.	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Source R _{int} R _{inc}	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
R _{int} @ BHT	<u>1.80 @ 147 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Time Since Circ.				
Max. Rec. Temp.	<u>147 °F @ B.H.</u>	<u>°F @</u>	<u>°F @</u>	<u>°F @</u>
Equip. Location	<u>8444 Hobbs</u>	<u>1</u>	<u>1</u>	<u>1</u>
Recorded By	<u>Ayres</u>			
Witnessed By	<u>Mr. Hanagan & Mr. Brunson</u>			