



# READING AND BATES

201 BLACK BUILDING 825 MAPLE AVENUE

ODESSA, TEXAS 79761

October 1, 1968

PHONE FE 2-0879

*SWD-78*

*Rec'd Oct 17*

New Mexico Oil Conservation Commission  
Drawer D D  
Artesia, New Mexico 88210

Reference: Salt Water Disposal  
White Ranch No. 2  
Unit H, Section 1, T-12-S, R-28-E  
Chaves County, New Mexico

Gentlemen:

We are attaching the following:

1. Letter dated August 16, 1968 from your geologist, Mr. R. L. Stamets to our Tulsa office.
2. Form C-108, Application to Dispose of Salt Water by Injection into a Porous Formation, Form C-108, in triplicate.
3. Plat of area.
4. Electrical Log.
5. Diagrammatic sketch of well.

We would appreciate receiving administrative approval of this application as soon as possible.

Yours very truly,

READING & BATES OFFSHORE  
DRILLING COMPANY

*Don K. Campbell*

Don K. Campbell  
Production Superintendent

1968 Oct 2 AM 10 30

DKC/ps

✓cc: New Mexico Oil Conservation Commission  
Attention: D. S. Nutter, Chief Engineer  
P. O. Box 2088  
Santa Fe, New Mexico 87501 (w/copy of Form C-108)

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

OPERATOR Reading & Bates Offshore Drilling Company		ADDRESS 201 Black Bldg., 825 Maple Ave., Odessa, Texas 79760	
LEASE NAME White Ranch	WELL NO. 2	FIELD Dry Hole	COUNTY Chaves
LOCATION UNIT LETTER <u>H</u> ; WELL IS LOCATED <u>1836</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE, SECTION <u>1</u> TOWNSHIP <u>12-S</u> RANGE <u>28-E</u> NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8"	1951	550 sx	Surface	Cement circulated
INTERMEDIATE					
LONG STRING					
TUBING	2 3/8"	1750	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model A Tension Packer		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 1790		BOTTOM OF FORMATION 1950
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 1790-1950		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Well - Dry Hole				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 were spotted as follows: 25 sx @ 8147', 25 sx @ 7600', 25 sx @ 5350', 25 sx @ None - Plugs / 3120', 25 sx @ 1950' & 10 sx @ surface.					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA Unknown		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA Unknown		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Unknown	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 300	MINIMUM 200	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) Unknown
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 Disposal water
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Roy Whittenburg, 220 West 6th Street, Amarillo, Texas 79101					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL None					
RECEIVED OCT 2 1968 D. C. C. ARTESIA, OFFICE					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL None		THE NEW MEXICO STATE ENGINEER Yes
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. 3

Don K. Gough Production Superintendent October 1, 1968  
(Signature) (Title) (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.



# RUSSCO Chemical Co.

Plant and Office - 1200 Garden City Hwy.

P. O. BOX 4246 • MIDLAND, TEXAS 79701 • 915-MU2-7152-LO3-2074

## WATER ANALYSIS REPORT

COMPANY Thornton Oil Company ADDRESS \_\_\_\_\_

LEASE White Ranch Lease DATE SAMPLED \_\_\_\_\_

ANALYSIS	PPM or Mg/L	EPM or Meg/L	Ionic PPM	
1. PH	6.7			
2. H <sub>2</sub> S	Pos.			
3. CO <sub>2</sub>	Pos.			
4. Specific Gravity				
5. Phenol Alkalinity (CaCO <sub>3</sub> )	0.0			
6. M.P. Alkalinity (CaCO <sub>3</sub> )	500			
7. Bicarbonate (CaCO <sub>3</sub> )	610	12.0	HCO <sub>3</sub>	732
8. Chlorides (Cl)	30,000	845.0	Cl	30,000
9. Sulphates (SO <sub>4</sub> )	1,800	37.5	SO <sub>4</sub>	37.5
10. Total Hardness (CaCO <sub>3</sub> )	3,800			
11. Calcium (CaCO <sub>3</sub> )	1,400	28.0	Ca	560.
12. Magnesium (CaCO <sub>3</sub> )	2,400	48.0	Mg	585.6
13. Sodium (Na)		818.0	Na	18,814.0
14. Nitrate (NO <sub>3</sub> )			NO <sub>3</sub>	
15. Iron (Fe)	7.5			
16. Total Dissolved Solids				50,729.1

Remarks: From PH and low salt ions, this water in all probability will be corrosive.

As Corrosion Inhibitor, RECOMMENDATIONS ARE: 0500W used at 1 qt/100 to  
150 bbls. Suggest coupons be run.

Respectfully,  
Russco Chemical Co.

Joe Bassham



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OCT 2 1968

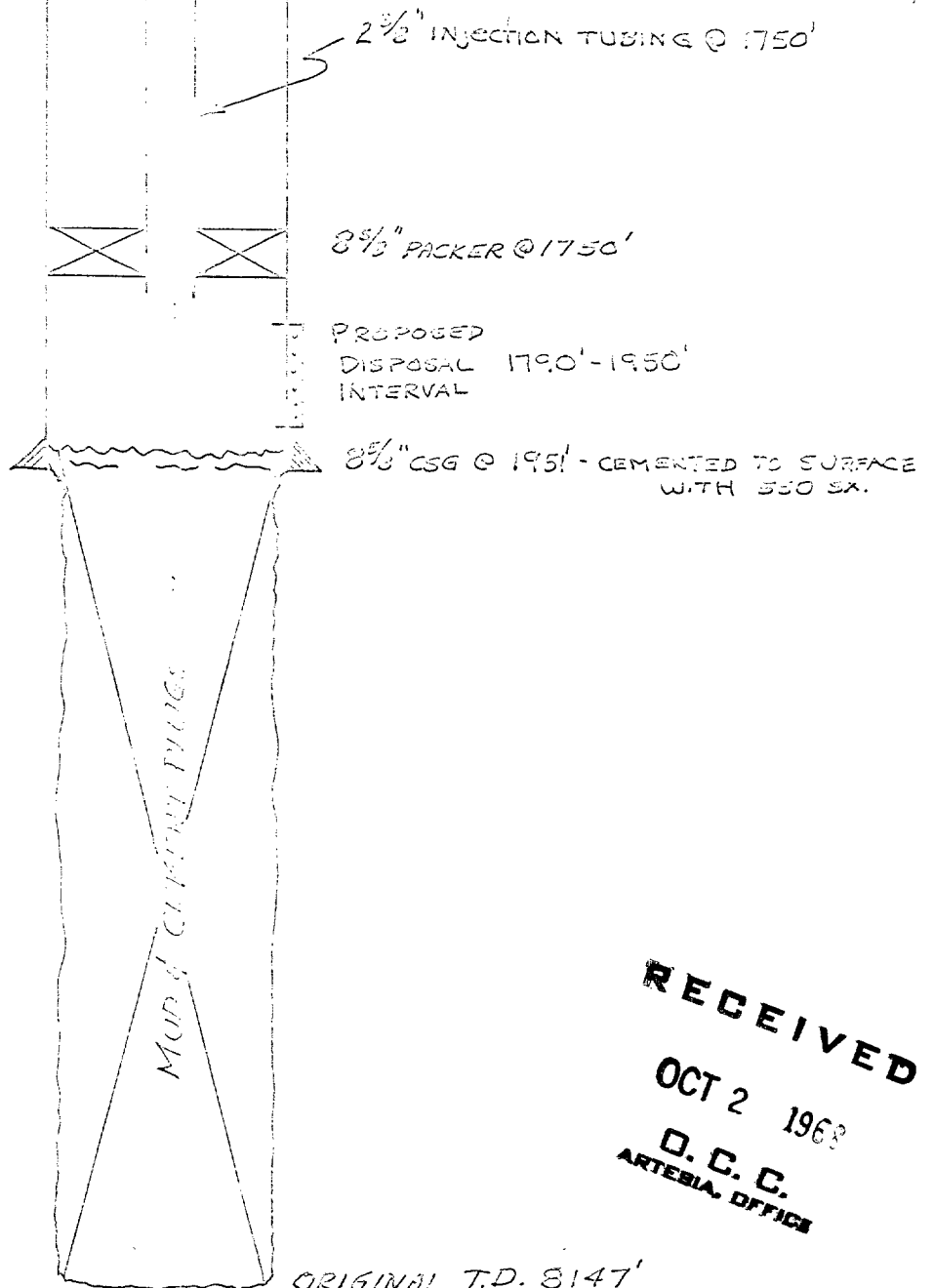
O. C. C.  
ARTERIA, OFFICE



GL. +3687

LEADING & BATES  
OFFSHORE DRILLING CO.

WHITE RANCH No. 2  
J.M.H., SEC. 1, T-12-S, R-23-E  
CHAVES COUNTY, NEW MEXICO



RECEIVED  
OCT 2 1968  
D. C. C.  
ARTEBIA, OFFICE

LAW OFFICES

NOV 8 10

## FOLLEY, SNODGRASS & CALHOUN

A. J. FOLLEY  
ROY C. SNODGRASS, JR.  
O. M. CALHOUN  
GEORGE A. WHITTENBURG, II

AMARILLO PETROLEUM BUILDING, SUITE 417  
AMARILLO, TEXAS 79101

November 5, 1968

AREA CODE 806  
TELEPHONE  
376-4557  
P. O. BOX 2709

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Re: Application to dispose of salt water  
Reading & Bates Offshore Drilling Company, Sec. 1,  
Township 12-S, Range 28-E, Chaves  
County, New Mexico

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Gentlemen:

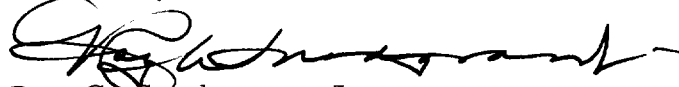
We represent Avalanche-Journal Publishing Company, who is  
the surface owner of the captioned land.

It is our understanding that Reading & Bates Offshore Drilling  
Company has made an application to dispose of salt water in a  
well located upon our client's property.

This will constitute the protest of the surface owner of this prop-  
erty to any disposition of the salt water as described in the ap-  
plication.

Very truly yours,

FOLLEY, SNODGRASS & CALHOUN



Roy C. Snodgrass, Jr.

RCS/s