



TIDEWATER OIL COMPANY

P. O. Box 249
Hobbs, New Mexico

June 2, 1966

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

Gentlemen:

Re: Application to Dispose of Salt Water
by Injection into a Porous Formation
on Tidewater's State AN Lease Well #10
Unit P, Sec. 7, T18S, R35E
Vacuum Field, Lea County, New Mexico

Tidewater Oil Company respectfully requests administrative approval to inject produced salt water into a porous formation on its State AN Lease in accordance with Rule 701-B and 701-C of the New Mexico Oil Conservation Commission Rules and Regulations.

In support of this application, Tidewater wishes to state the following:

1. Tidewater's State AN Lease is located in Section 7, T18S, R35E, Vacuum Field, Lea County, New Mexico.

2. Tidewater's proposed injection well is its State AN No. 10, Unit P in Section 7, which was drilled and cased through the Abo Reef formation. The Abo is non-productive in this well and the perforations have been plugged off.

3. Attached is a plat showing the location of the proposed injection well and all other wells within a radius of two miles and the formation from which these wells are producing.

4. Attached is a diagrammatic sketch of the proposed injection well showing all pertinent data. A log of this well is also included.

5. Tidewater proposes to inject produced salt water into the San Andres formation below the oil-water contact at intervals 5255-5367 and 5403-5500'. It is anticipated that the volume of produced salt water from the Abo and Devonian formations to be injected will be a minimum of 360 barrels per day and a maximum of 3000 barrels per day.

6. A copy of this application with all attachments has been sent to the State Engineer's Office in Santa Fe.

If this application is not granted administratively, Tidewater requests that it be set for examiner hearing in accordance with provisions of Rule 701-C.

Very truly yours,

TIDEWATER OIL COMPANY

C. L. Wade
C. L. Wade
Area Superintendent

WES/ep

Attachments

cc: State Engineer Office
Capital Building
Santa Fe, New Mexico

Mr. Giles M. Lee
Box 478
Buckeye, New Mexico

Tidewater Oil Co.
P. O. Box 1231
Midland, Texas

Offset Operators

3-OCC Santa Fe

1-State Engineer

1-Midland

1-Surface Owner

1-File

1-Offset Operators

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-108
Revised 1-1-65AM 7 43
JUN 6

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

OPERATOR Tidewater Oil Company		ADDRESS Box 249, Hobbs, New Mexico	
LEASE NAME State AN	WELL NO. 10	FIELD Vacuum	COUNTY Lea
LOCATION UNIT LETTER P ; WELL IS LOCATED 990 FEET FROM THE South LINE AND 990 FEET FROM THE Ease LINE, SECTION 7 TOWNSHIP 18 S RANGE 35 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"	344'	250	Surface	Visual
INTERMEDIATE	8-5/8	4850	1471	370'	Temp. Survey
LONG STRING	5-1/2	9012	575	3800	Temp. Survey
TUBING	2-7/8	5030	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lokset @ 5000'		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 4835		BOTTOM OF FORMATION 5745
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 5255-5367 and 5403-5500		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil production from Abo zones			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 8933-38, 42-51, 69-75, 86-91 and 94-99; CIBP's set @ 8979 and 8960; 25 sks cem. from 8960 to 8730'					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1600		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 4835		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 8219	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 360	MINIMUM 3000	MAXIMUM 3000	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity expected	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?
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Giles M. Lee, Box 478, Buckeye, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Skelly Oil Company, Box 730, Hobbs, New Mexico					
Texas Pacific Oil Company, 200 S. Fowler, Hobbs, New Mexico					
Sinclair Oil & Gas Company, Box 1470, Midland, Texas					
Humble Oil & Refining Company, Box 2100, Hobbs, New Mexico					
Forest Oil Company, Box 4106, Odessa, Texas					
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 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.

C. L. Wadde

(Signature)

Area Supt.

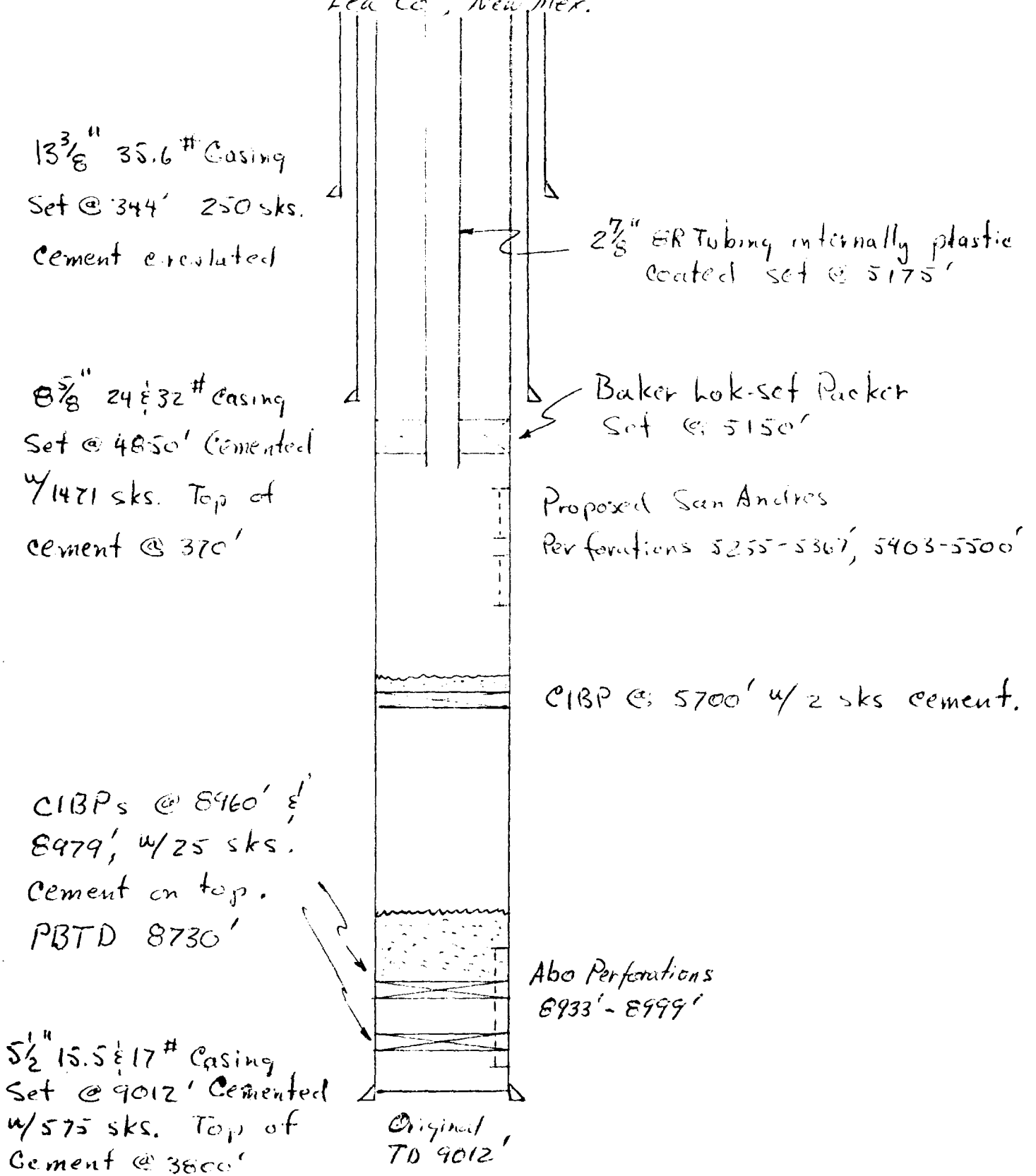
(Title)

June 2, 1966

(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.

TIDEWATER OIL COMPANY
 Proposed Salt Water Disposal Well
 State "AN" No. 10
 Unit P, Sec. 7, T18S, R35E
 Lea Co., New Mex.



13 3/8" 35.6 # Casing
 Set @ 344' 250 sks.
 Cement circulated

2 7/8" ER Tubing internally plastic coated set @ 5175'

8 7/8" 24 & 32 # Casing
 Set @ 4850' Cemented
 w/ 1471 sks. Top of cement @ 370'

Baker lok-set Packer
 Set @ 5150'

Proposed San Andres
 Perforations 5255-5367, 5403-5500'

CIBP @ 5700' w/ 2 sks cement.

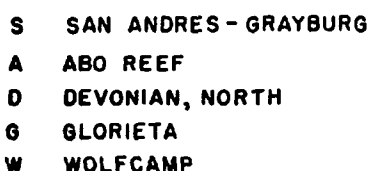
CIBPs @ 8960' &
 8979', w/ 25 sks.
 Cement on top.
 PBTD 8730'

Abo Perforations
 8933'-8999'

5 1/2" 15.5 & 17 # Casing
 Set @ 9012' Cemented
 w/ 575 sks. Top of
 Cement @ 3800'

Original
 TD 9012'

PROPOSED SALT WATER INJECTION WELL
STATE "AN" WELL No. 10 P, Sec. 7, T-18-S, R-35-E
Lea County, New Mexico





SKELLY OIL COMPANY

P. O. Box 1650

TULSA, OKLAHOMA 74102

PRODUCTION DEPARTMENT

C. L. BLACKSHER, VICE PRESIDENT

W. P. WHITMORE, MGR. PRODUCTION

W. D. CARSON, MGR. TECHNICAL SERVICES

ROBERT G. HILTZ, MGR. JOINT OPERATIONS

GEORGE W. SELINGER, MGR. CONSERVATION

June 8, 1966

Re: Application of Tidewater Oil
Company to Dispose of Salt Water
by Injection into a Porous
Formation on their State AN Lease
Well No. 10 Unit P, Sec. 7, T18S, R35E,
Vacuum Field, Lea County, New Mexico

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

Attention: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

We have received a copy of Tidewater Oil Company's application for permission to dispose of salt water into their State AN Lease Well No. 10, located in the Vacuum Field, Lea County, New Mexico.

This is to advise that Skelly Oil Company waives objection to the granting of this application.

Yours very truly,

RJJ:br

cc-Tidewater Oil Company
P. O. Box 249
Hobbs, New Mexico



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

June 14, 1966

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to Tidewater Oil Company's application dated June 2, 1966 which seeks administrative approval to dispose of salt water by injection into the San Andres formation through their State "AN" No. 10 well.

After reviewing the application and the exhibits attached thereto, it appears that no threat of contamination to any fresh waters in the area will occur if the application is granted. Therefore this office offers no objection to the granting of the application.

ma
cc-Tidewater Oil Co.
F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.