

CITIES SERVICE OIL COMPANY
P. O. Box 69
Hobbs, New Mexico

January 27, 1964

RECEIVED 12

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Dr. 12

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Cities Service Oil Company, operator of the Brickley Queen Sand Unit, Caprock Queen Pool, Chaves County, New Mexico, requests administrative approval as provided in Rule 701 and Order R 1128-S for the conversion of the following wells to injection:

- Tract 23 Well No. 1, Unit F, Section 16, T-14S, R-31E.
- Tract 25 Well No. 1, Unit J, Section 16, T-14S, R-31E.
- Tract 37 Well No. 6, Unit H, Section 35, T-13S, R-31E.

These wells are offset by producing wells which have experienced response from the waterflood. Forms C-116 are included showing tests before and after stimulation. The proposed injection wells are located on a pattern previously established in the Caprock Queen Pool, results of which have indicated a thorough and efficient sweep of oil by the injected water.

The injection wells will be equipped with cement lined tubing and a packer to prevent possible contamination of fresh water zones in the event of a casing leak. The attached schematic diagram indicates the size of casing, setting depth, amounts of cement used, tops of cement, total depths and other pertinent data. Water injection will be into the Queen formation at approximately 400 barrels per day. The source of the injection fluid is the Ogallala fresh water sand and the supply wells are located in Section 24-14S-31E, Chaves County and Sections 19, 29 and 30-14S-32E, Lea County, New Mexico.

A copy of this application, along with all attachments, has been sent to each offset operator and to the New Mexico State Engineer.

Very truly yours,

CITIES SERVICE OIL COMPANY



E. F. Metter
Division Engineer

EFH/sjb

Attachment

cc: State Engineer
Attn: Mr. Frank Irby
P. O. Box 1069
Santa Fe, New Mexico

Oil Conservation Commission
P. O. Box 2045
Hobbs, New Mexico

John E. Trigg
P. O. Box 5629
Roswell, New Mexico

Great Western Drilling Company
P. O. Box 1659
Midland, Texas

Phillips Petroleum Company
P. O. Box 2105
Hobbs, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Cities Service Oil Company POOL Drickey Queen
 ADDRESS Box 69, Hobbs, New Mexico MONTH OF _____, 19____
 SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST (Check One)
 (See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
<u>DRICKEY QUEEN SAND UNIT WELL</u>										
Tract 37	5	3-23	P	-	24	10	1	10	TSTM	TSTM
Tract 37	4	3-24	P	-	24	9	2	9	TSTM	TSTM
Tract 15	3	8-8	P	-	24	7	6	7	TSTM	TSTM
Tract 41	1	7-11	P	-	24	5	2	5	TSTM	TSTM
Tract 17	1	4-28	P	-	24	2	1	2	TSTM	TSTM
Test on offset wells to proposed injection wells prior to stimulation.										

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

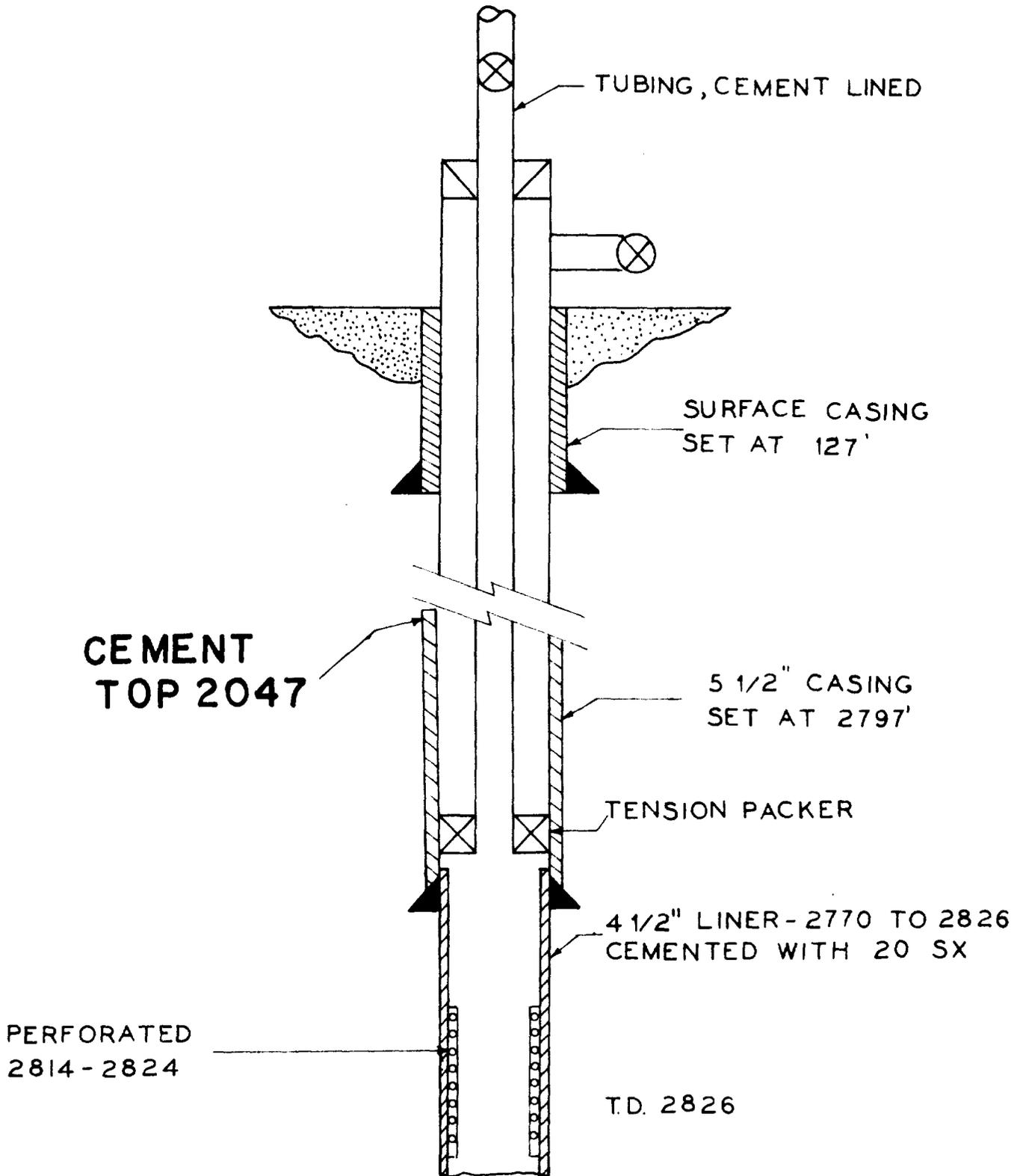
(I certify that the information given is true and complete to the best of my knowledge.)

Date January 9, 1964

Cities Service Oil Company
 Company
 By E. A. Sunez
 District Engineer
 Title

CITIES SERVICE OIL COMPANY

TRACT 23, WELL NO.1

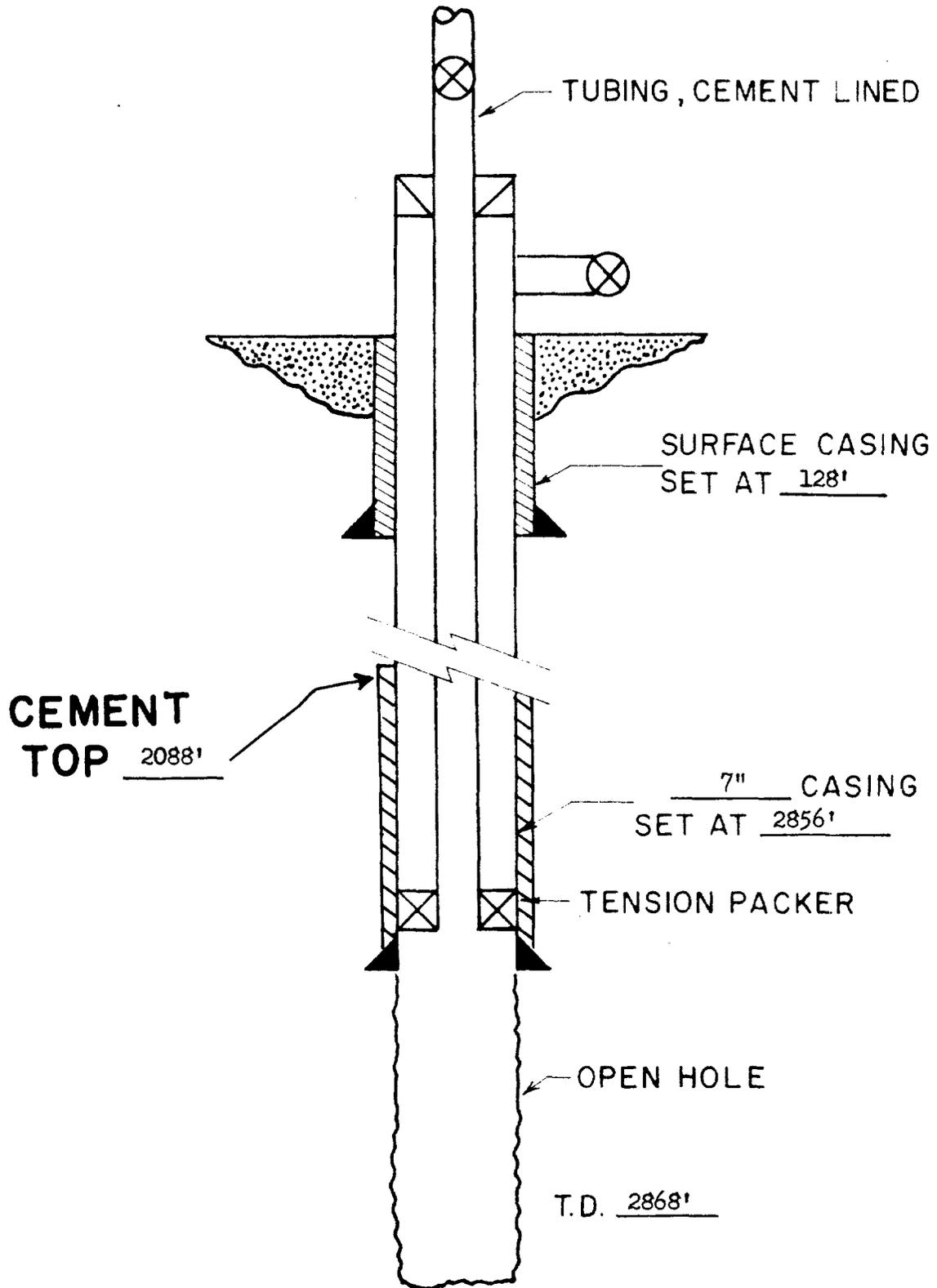


WATER INJECTION WELL SCHEMATIC

DRICKEY QUEEN SAND UNIT

CITIES SERVICE OIL COMPANY

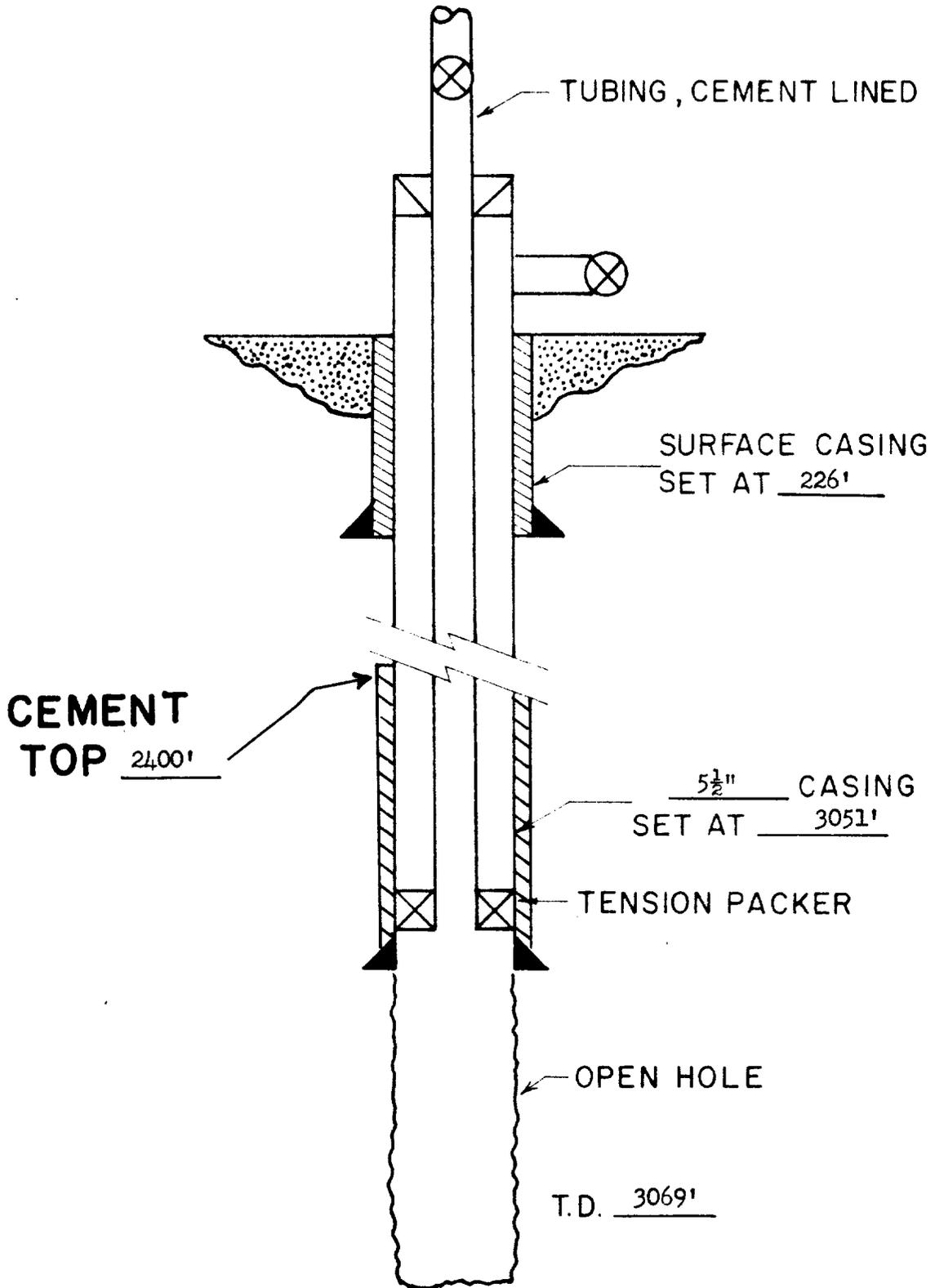
Tract 25 - Well #1



WATER INJECTION WELL SCHEMATIC

DRICKEY QUEEN SAND UNIT

Tract 37 Well #6



WATER INJECTION WELL SCHEMATIC

DRICKEY QUEEN SAND UNIT

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Cities Service Oil Company POOL Drickey Queen
 ADDRESS Box 69 MONTH OF _____, 19____
 SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST (Check One)
 (See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
DRICKEY QUEEN SAND UNIT WELL										
Tract 37	5	11-3	P	-	24	422	12	422	TSTM	TSTM
Tract 37	4	10-12	P	-	24	434	30	434	TSTM	TSTM
Tract 15	3	12-16	P	-	24	56	4	56	TSTM	TSTM
Tract 41	1	9-15	P	-	24	9	7	9	TSTM	TSTM
Tract 17	1	11-22	P	-	24	4	5	4	TSTM	TSTM
Tests on offset wells to injection wells after stimulation has occurred.										

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

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(I certify that the information given is true and complete to the best of my knowledge.)

Date January 9, 1964

Cities Service Oil Company
 By E. A. Fung
 District Engineer
 Title



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

January 15, 1964

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

Dear Mr. Porter:

Reference is made to the application of Cities Service Oil Company which requests administrative approval for the conversion of the following wells to injection:

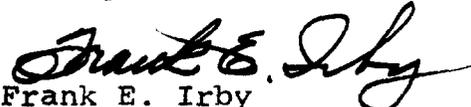
Tract 23 Well No. 1, Unit F, Section 16, T-14S, R-31E.
Tract 25 Well No. 1, Unit J, Section 16, T-14S, R-31E.
Tract 37 Well No. 6, Unit H, Section 35, T-13S, R-31 E.

The application states "The injection wells will be equipped with cement lined tubing and packer to prevent possible contamination of fresh water zones in the event of a casing leak (see attached schematic diagrams)." The schematic diagram does not show the point at which the tension packer will be set.

This office offers no objection to the granting of this application provided tubing and packer are set below the top of the cement surrounding the casing which is set at 3055 feet.

Very truly yours,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Division

FEI/ma
cc-Cities Service Oil Co.

