

**CITIES SERVICE OIL COMPANY**

**P. O. Box 69  
Hobbs, New Mexico**

**December 8, 1964**

DEC 10 AM 10 1964

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

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

**Gentlemen:**

**Cities Service Oil Company, operator of the Drickey Queen Sand Unit, Caprock Queen Pool, Chaves County, New Mexico, requests administrative approval as provided in Rule 701 and Order No. R 1128-8 for the conversion of the following well to injection:**

**Tract 1 Well No. 3, Unit J, Section 15, T-14S, R-31E**

**This well is offset by a producing well which has experienced response from the waterflood. Form C-116 is included showing tests before and after stimulation. The proposed injection well is 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 well 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. Y. Wilder  
District Superintendent

EYW/CLK/bg

Attachments

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

Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico

John H. 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

Continental Oil Company  
P. O. Box 460  
Hobbs, New Mexico

## NEW MEXICO OIL CONSERVATION COMMISSION

## GAS-OIL RATIO REPORT

OPERATOR **Cities Service Oil Company** POOL **Drickey Queen Sand Unit**  
ADDRESS **Box 69, Hobbs, New Mexico** MONTH OF \_\_\_\_\_, 19 **64**  
SCHEDULED TEST \_\_\_\_\_ COMPLETION TEST \_\_\_\_\_ SPECIAL TEST **X** (Check One)  
(See Instructions on Reverse Side)

## (Comparison of Tests before and after waterflood response)

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	
Tract 1	2	9/8	P	Open	24		5	6	TSTM	-
Tract 1	2	10/28	P	Open	24		5	40	TSTM	-
Tract 1	2	10/29	P	Open	24		1	43	TSTM	-

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.)

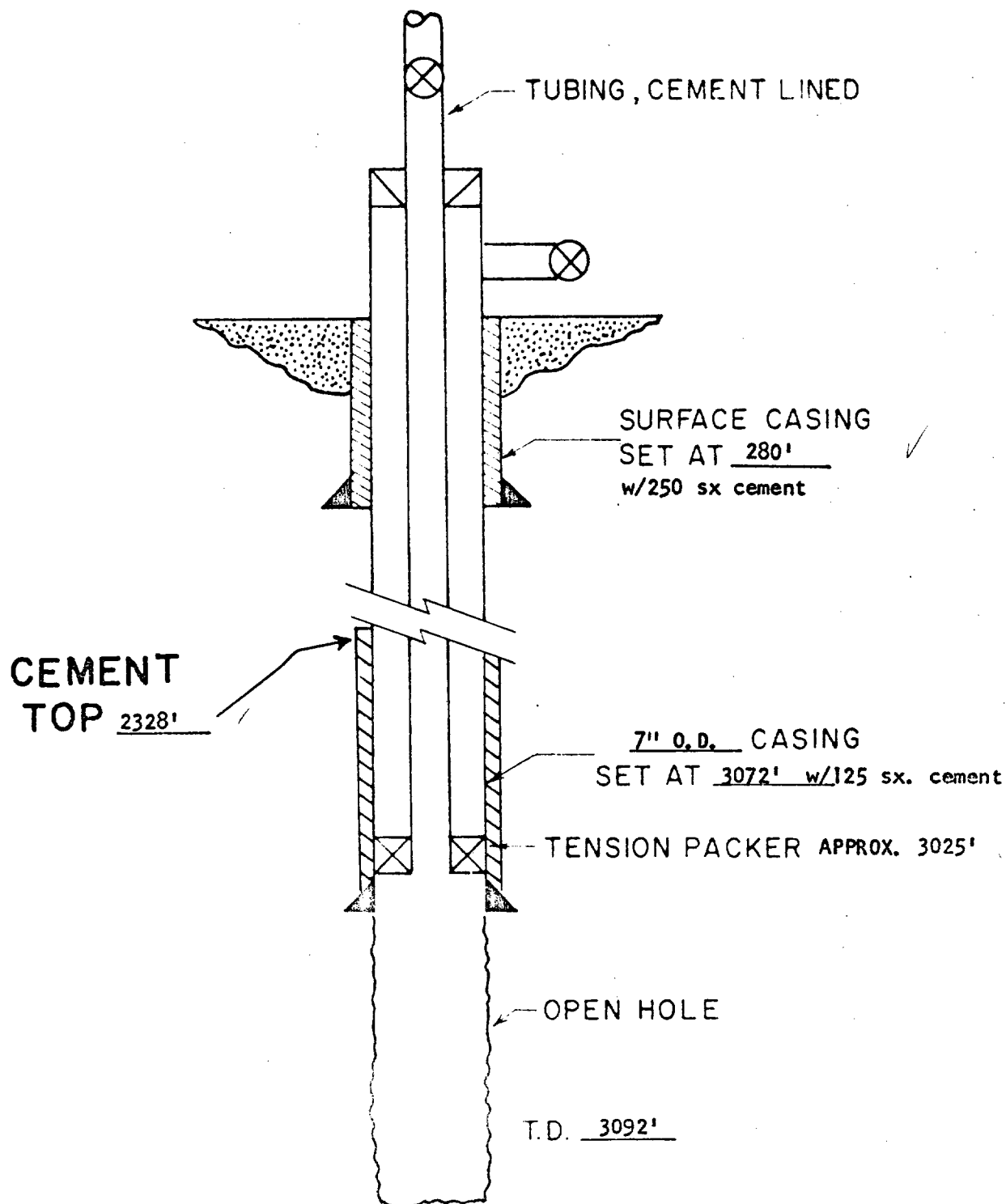
Date **December 8, 1964**

**Cities Service Oil Company**

By 

**Production Engineer**

Title



WATER INJECTION WELL SCHEMATIC

DRICKEY QUEEN SAND UNIT



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

December 10, 1964

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

DEC 11 AM '64

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 dated December 8, 1964 which seeks administrative approval for conversion of their No. 3 well in Unit J, Section 15, Township 14 South, Range 31 East, Drickey Queen Sand Unit to water injection.

In view of the statement that injection will be down cement lined tubing under a tension packer set well below the top of the cement surrounding the 7-inch casing, it appears that no threat of contamination to the fresh waters which may exist in the area will occur. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds  
State Engineer

FEI/ma  
cc-Cities Service Oil Co.  
F. H. Hennighausen

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

