

CITIES SERVICE OIL COMPANY

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

December 8, 1964

DEC 10 AM 10 44

**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-B 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

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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 _____, 1964
 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	2 1/2		5	6	TSTM	-
Tract 1	2	10/28	P	Open	2 1/2		5	40	TSTM	-
Tract 1	2	10/29	P	Open	2 1/2		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.

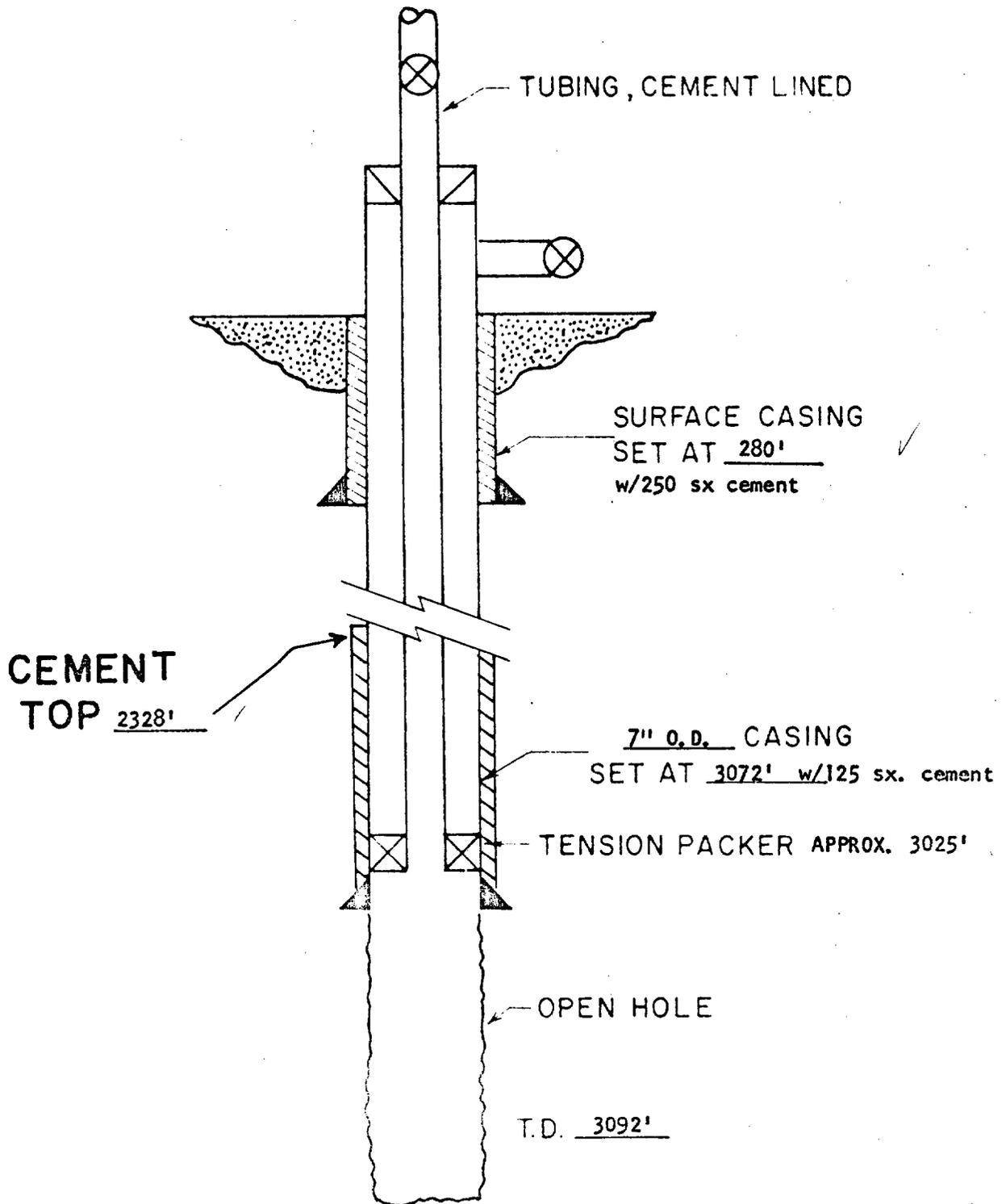
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

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
 Company
 By [Signature]
 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.

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

Dear Mr. Porter:

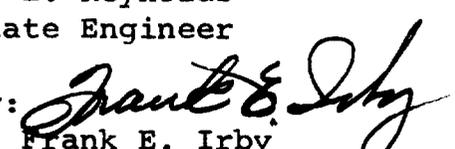
Reference is made to the application of Cities Service Oil Company dated December 8, 1964 which seeks administrative approval for conversion of their No. 3 well in Unit J, Section 15, Township 14 South, Range 31 East, Drickey Queen Sand Unit to water injection.

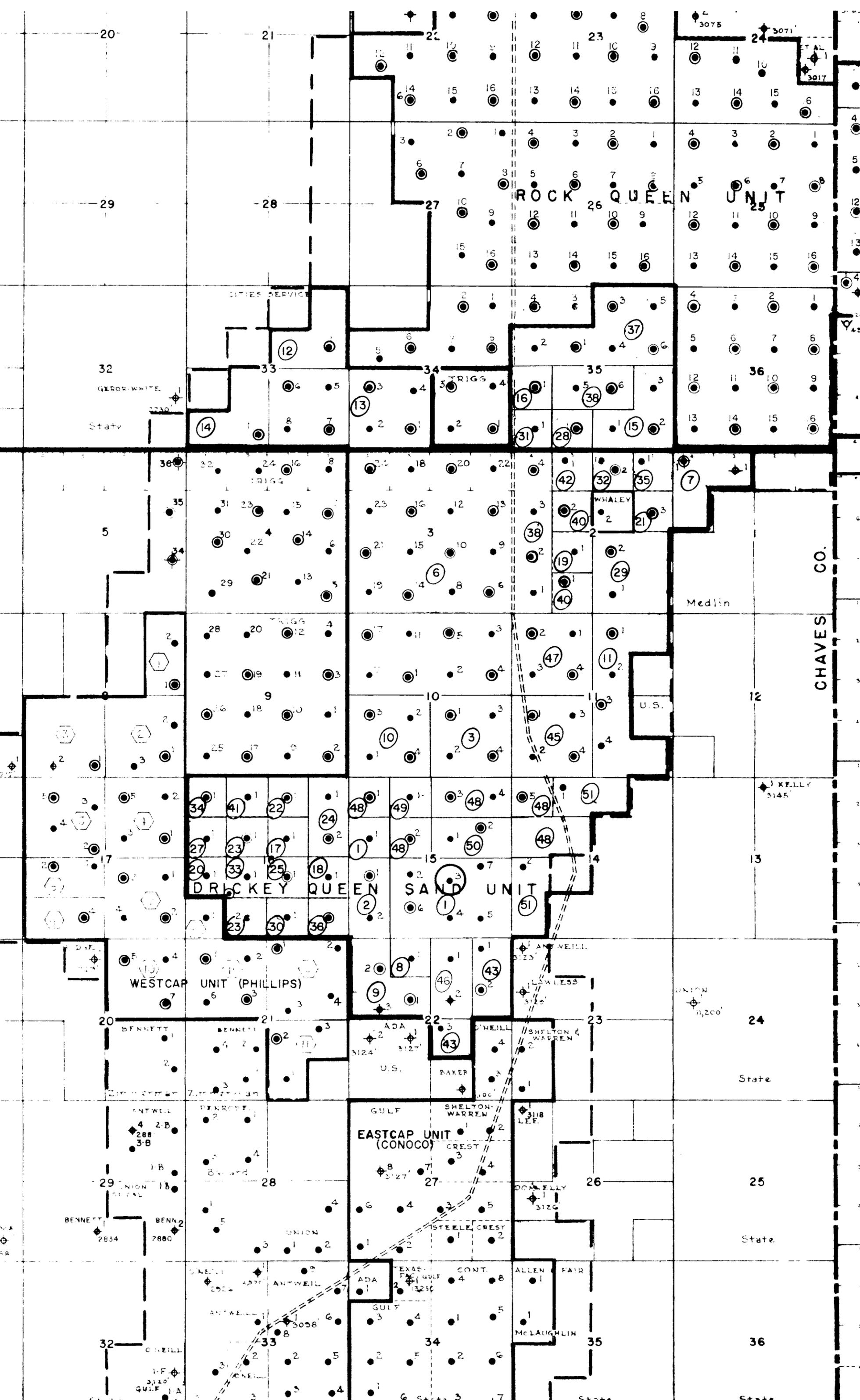
In view of the statement that injection will be down cement lined tubing under a tension packer set well below the top of the cement surrounding the 7-inch casing, it appears that no threat of contamination to the fresh waters which may exist in the area will occur. Therefore, this office offers no objection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



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ROCK QUEEN UNIT

DRICKY QUEEN SAND UNIT

WESTCAP UNIT (PHILLIPS)

EASTCAP UNIT (CONOCO)

CHAVES CO.

GEROR WHITE
Statv

TRIGGS

WHALEY

U.S.

KELLY
3145'

BENNETT

ADA
3124'
3127'

O'NEILL

SHELTON & WARREN

ANTWELL
288
3-B

PEAROSE

GULF

SHELTON-WARREN

ANTWELL
3118
L.F.F.

BENNETT

BENNETT

ADA
3124'

SHELTON-WARREN

DOUGHERTY
3126'

O'NEILL

O'NEILL

ADA

TEXAS
GULF

ALLEN FAIR
MCLAUGHLIN

CITIES SERVICE

TRIGGS

Medlin

D.F.

BENNETT

BENNETT

ADA

O'NEILL

SHELTON & WARREN

ANTWELL

PEAROSE

GULF

SHELTON-WARREN

ANTWELL

BENNETT

BENNETT

ADA

SHELTON-WARREN

DOUGHERTY

O'NEILL

O'NEILL

ADA

TEXAS
GULF

ALLEN FAIR
MCLAUGHLIN