

CITIES SERVICE OIL COMPANY

P. O. Box 69

Hobbs, New Mexico

December 30, 1964

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**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 1128-3 for the conversion of the following wells to injection:

Tract 1 Well No. 5, Unit P, Section 15, T-14S, R-31E

Tract 51 Well No. 2, Unit L, Section 14, T-14S, R-31E

These wells are offset by producing wells which have experienced response from the waterflood. Form C-116 is 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. Y. Wilder

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 Orickey Queen Sand Unit
 ADDRESS Box 69, Hobbs, New Mexico MONTH OF December, 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	4	8/2	Pmpg	Open	24		1	1	TSTM	-
		12/17	Pmpg	Open	24		1	3	TSTM	-
Tract 1	7	11/3	Pmpg	Open	24		4	9	TSTM	-
		12/16	Pmpg	Open	24		3	12	TSTM	-
Tract 43	1	8/7	Pmpg	Open	24		1	1	TSTM	-
		12/22	Pmpg	Open	24		1	5	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.)

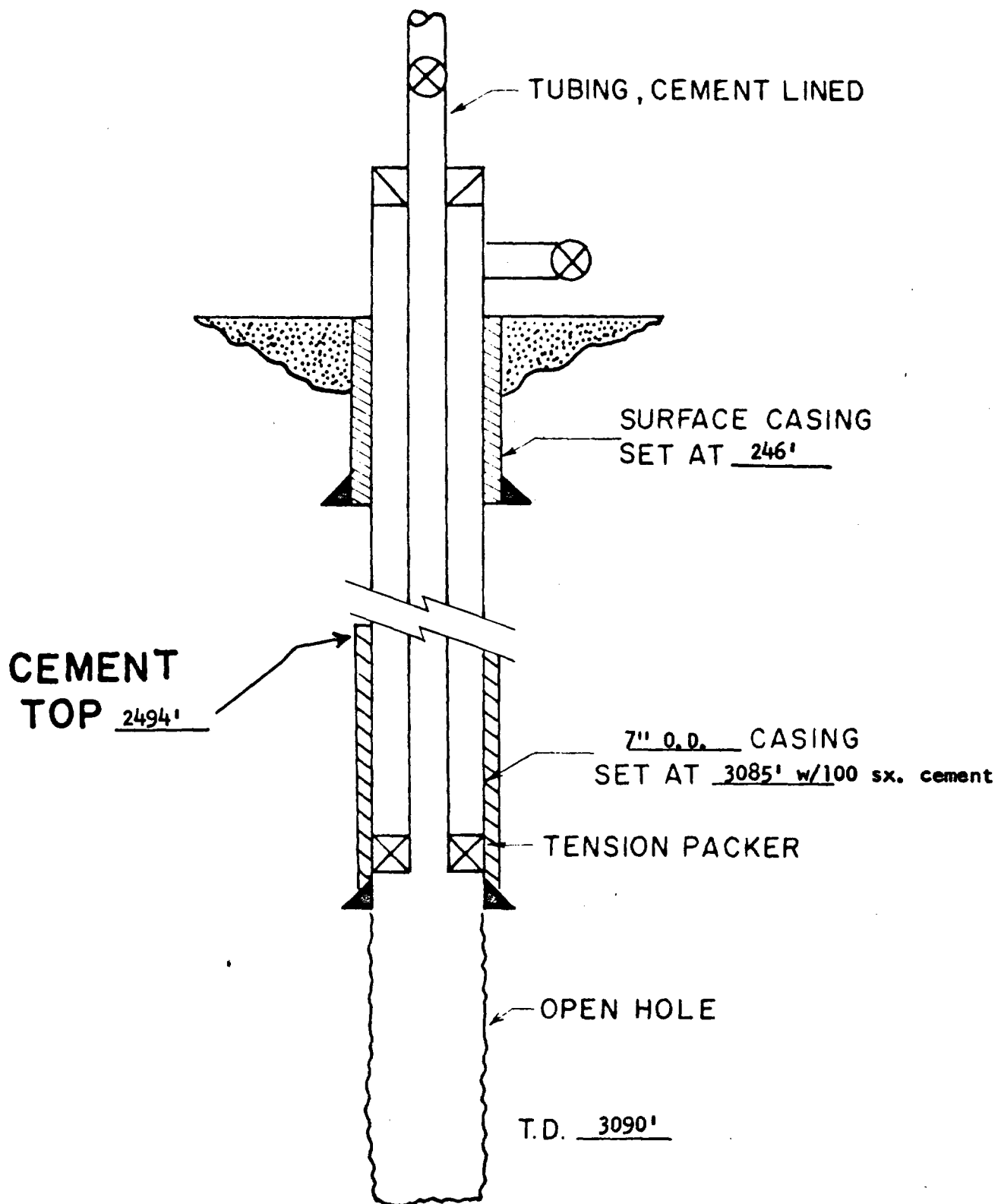
Date December 30, 1964

Cities Service Oil Company
 By E. H. Furey
 District Engineer
 Title

CITIES SERVICE OIL COMPANY

Drickey Queen Sand Unit

Tract 1 - Well #5

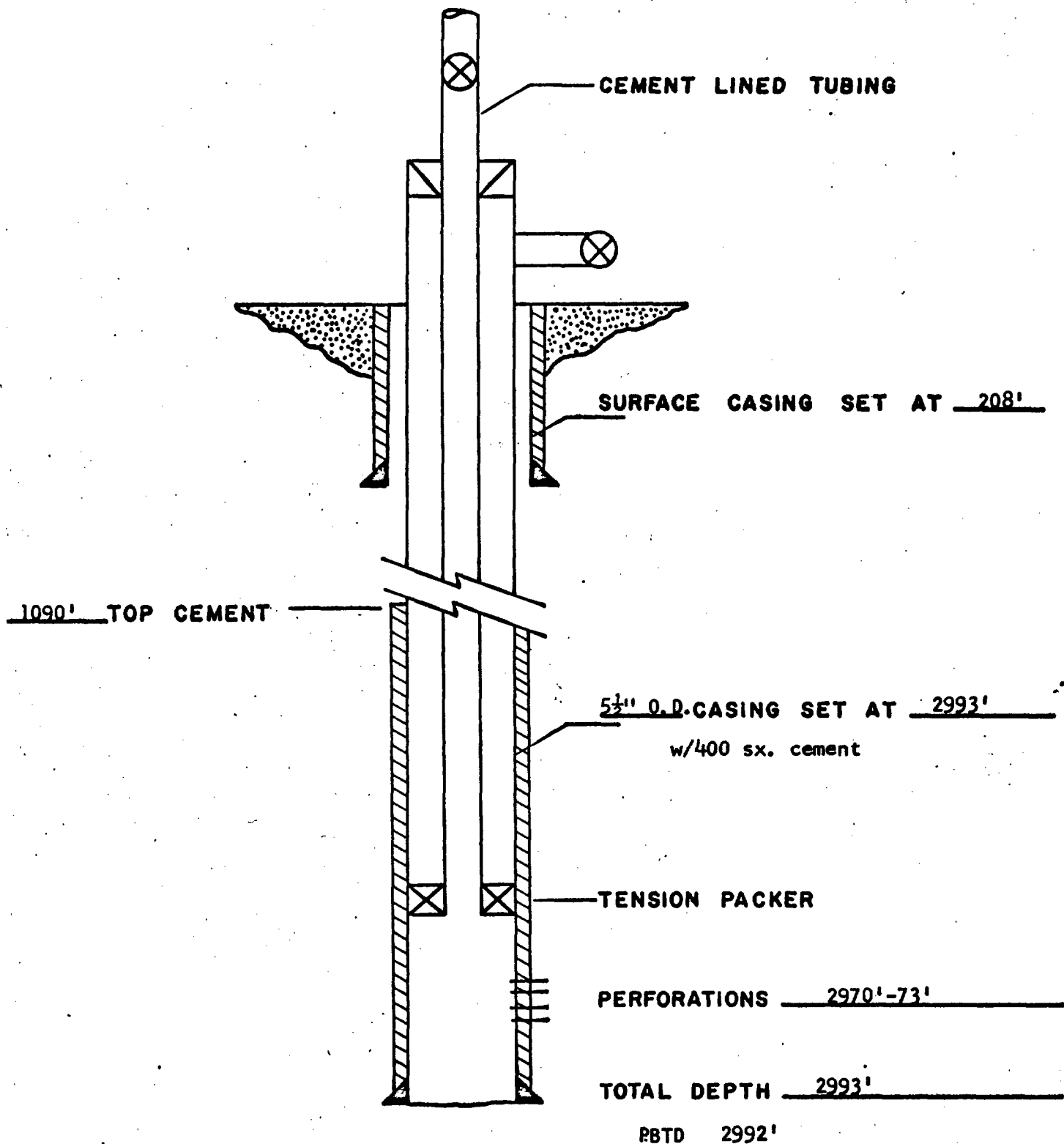


WATER INJECTION WELL SCHEMATIC

DRICKEY QUEEN SAND UNIT

CITIES SERVICE OIL COMPANY

Drickey Queen Sand Unit
Tract 51 - Well #2



WATER INJECTION WELL SCHEMATIC



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

January 5, 1965

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

87501

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

Dear Mr. Porter:

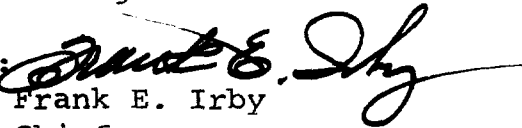
Reference is made to the application of Cities Service Oil Company which seeks administrative approval for conversion of the following wells to injection:

Tract 1 Well No. 5, Unit P, Sec. 15, T. 14 S., R. 31 E.
Tract 51 Well No. 2, Unit L, Sec. 14, T. 14 S., R. 31 E.

Statements in the application and examination of the schematic diagrams indicate that no threat of contamination to the fresh waters which may exist in the area will occur, if the wells are complete in the manner indicated on the schematic diagrams. Therefore, this office offers no objection to the granting of this application, provided the tension packer on the end of the cement-lined tubing is set well below the top of the cement surrounding the 7 inch O.D. casing in well No. 5 and the 5½ inch O.D. casing in Well No. 2.

Yours truly,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Div.

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

