

CITIES SERVICE PETROLEUM COMPANY



Formerly ~~Named~~

*WEX - 86*  
*Washington*  
*June 21, 1961*

## CITIES SERVICE OIL COMPANY

BOX 97

HOBBS, NEW MEXICO

June 21, 1961

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

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

Gentlemen:

Cities Service Petroleum Company, operator of the Drickey Queen Sand Unit, Caprock Queen Pool, Chaves County, New Mexico, requests administrative approval as provided in Rule 701 for the conversion of the following wells to water injection.

Tract 12	Well #1	NE, SE Sec 33.
Tract 13	Well #3	SW, NW Sec 34
Tract 13	Well #6	SE, NW Sec 33

All located in Township 13 South, Range 31 East, Chaves County, New Mexico.

All of the above proposed water injection wells have experienced a response to water injection from the project or are directly offset by producing wells which have experienced response. Forms C-116 are enclosed showing production tests at the start of waterflooding and most recent tests.

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. All injection wells will be equipped with plastic coated tubing and packers to prevent possible contamination of fresh water in the event of a casing leak.

Oil Conservation Commission -- Page 2.

Copies of this application have been sent to each offset operator and to the State Engineer.

Very truly yours,

CITIES SERVICE PETROLEUM COMPANY



E. F. Motter  
Assistant Division Engineer

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

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

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

Great Western Drilling Company  
Box 1659  
Midland, Texas

EFM/jsh

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR **Great Western Drilling Company** POOL **Caprock Queen**

ADDRESS **Box 1659, Midland, Texas** MONTH OF **May**, 19**61**

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	
<b>Rock Queen Unit Tract 44</b>	<b>34-5</b>	<b>5-28</b>	<b>P</b>		<b>24</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>4.5</b>	<b>300</b>
			<b>Test before Stimulation by Waterflood</b>							

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 **June 26, 1961**

**Great Western Drilling Company**  
Company

By *O.H. Crews* **O.H. Crews**

**Administrative Coordinator**  
Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR **Great Western Drilling Company** POOL **Caprock Queen**  
 ADDRESS **Box 1659, Midland, Texas** MONTH OF **June**, 19 **61**  
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST **X**..... (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	
<b>Caprock Queen Unit Tract 44</b>	<b>34-5</b>	<b>6-23</b>	<b>P</b>		<b>24</b>	<b>15</b>	<b>0</b>	<b>51</b>	<b>TSTM</b>	
			<b>Test after Stimulation by Waterflood</b>							

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.

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Date **June 26, 1961**

**Great Western Drilling Company**  
Company

By *O.H. Crews* **O.H. Crews**

**Administrative Coordinator**  
Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR..... Cities Service Petroleum Company POOL..... Caprock Queen  
 ADDRESS..... Box 97 - Hobbs, New Mexico MONTH OF....., 19.....  
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST..... **XX**..... (Check One)  
 (See Instructions on Reverse Side)

**Before Stimulation**

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 13	2	1-15-61	P	-	6	6	0	1.5	1	630
	4	10-10-60	P	-	24	15	0	3	5	1666
	8	11-28-60	P	-	24	10	0	5	1	200

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..... June 20, 1961.....  
 By..... W. L. Janney.....  
 Title..... Production Engineer.....  
Company

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR..... Cities Service Petroleum Company POOL..... Caprock Queen

ADDRESS..... Box 97 - Hobbs, New Mexico MONTH OF....., 1961

SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST..... **XX**..... (Check One)

(See Instructions on Reverse Side)

After Stimulation

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 13	2	5-19	P	-	24	6	0	16	3	187
	4	5-7	P	-	5	15	0	8	2	250
	8	6-3	P	-	24	10	0	8	2	250

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..... June 20, 1961

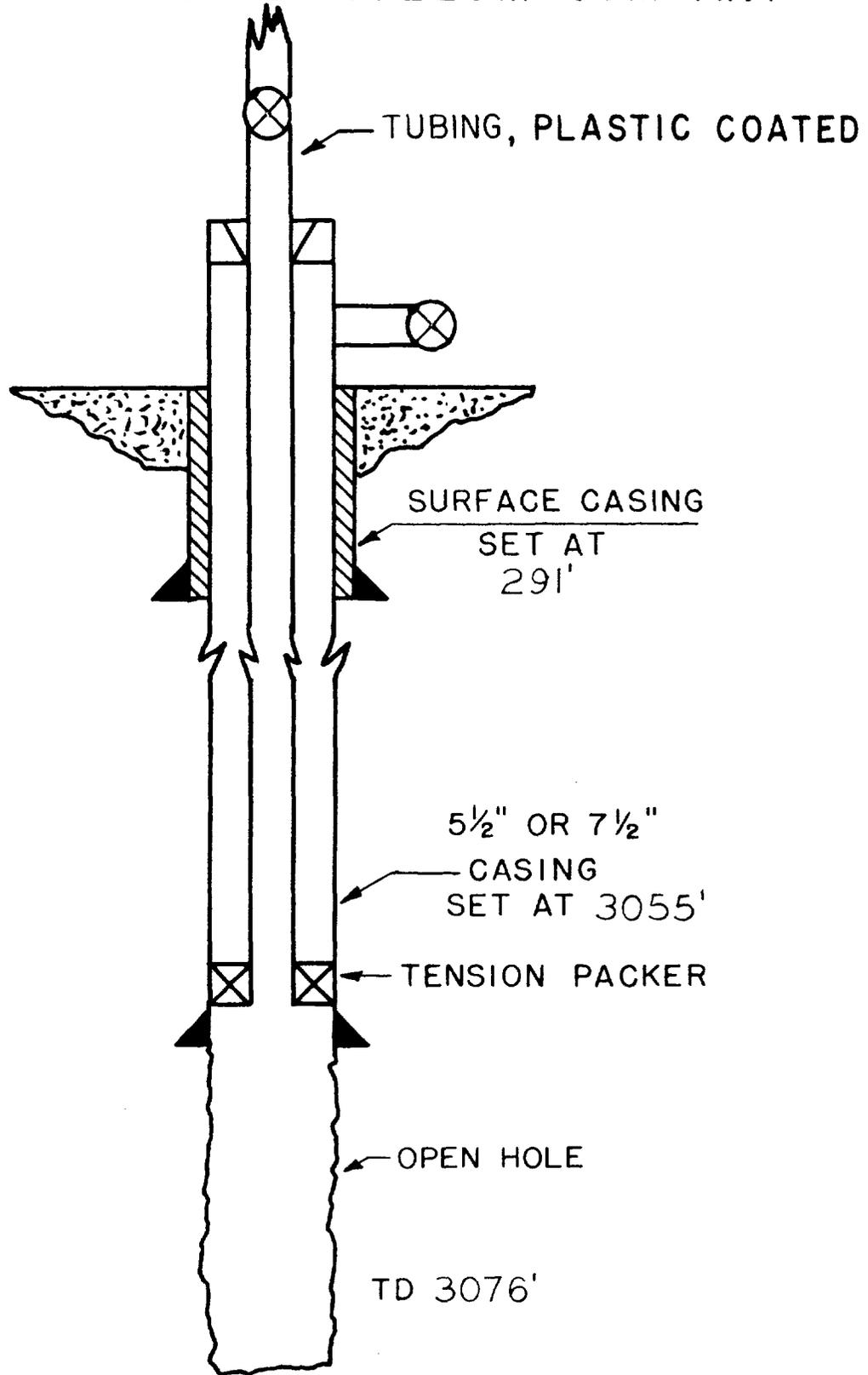
..... Cities Service Petroleum Company

By..... W. L. Janney

..... Production Engineer



CITIES SERVICE PETROLEUM COMPANY



WATER INPUT WELL SCHEMATIC  
DRICKEY QUEEN SAND UNIT

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE July 7, 1961

OIL CONSERVATION COMMISSION  
BOX 371  
SANTA FE, NEW MEXICO

Re: Proposed NSP.....  
Proposed NSL.....  
Proposed NFO.....  
Proposed DC.....

WFX 86

Gentlemen:

I have examined the application dated \_\_\_\_\_  
for the Cities Service Oil Co. Drickey Queen Sand Unit  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.----LAC

O.K.----JWR

Yours very truly,

OIL CONSERVATION COMMISSION

*Feski A. Clements*



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

June 30, 1961

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

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 Petroleum Company dated June 21, 1961 which seeks administrative approval for the conversion of the following wells to water injection:

Tract 12	Well #1	NE $\frac{1}{4}$ SE $\frac{1}{4}$	Section 33
Tract 13	Well #3	SW $\frac{1}{4}$ NW $\frac{1}{4}$	Section 34
Tract 13	Well #6	SE $\frac{1}{4}$ NW $\frac{1}{4}$	Section 33

All located in Township 13 South, Range 31 East, Chaves County, New Mexico.

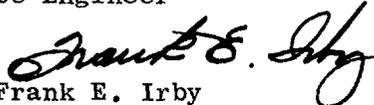
After studying the application and the attachments, I have reached the conclusion that the conversion of these wells and the injection of water, as proposed in the application, will not constitute a threat of contamination to the fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds  
State Engineer

ma

cc-Cities Service Petroleum Co., Hobbs  
Oil Conservation Commission, Hobbs  
F. H. Hennighausen, Roswell

By:   
Frank E. Irby  
Chief  
Water Rights Division