

CITIES SERVICE PETROLEUM COMPANY



FORMERLY NAMED

MAIN OFFICE OCC
CITIES SERVICE OIL COMPANY
FEB 13 1962

BOX 97

HOBBS, NEW MEXICO

February 15, 1962

WFX - '00

Due Date - Mar 6

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 16 well #1 NW SW Section 35, T-13S, R-31E. ✓
Tract 37 well #1 SE NW Section 35, T-13S, R-31E.
Tract 37 well #3 NW NE Section 35, T-13S, R-31E.

Tract 16 well #1 is directly offset by a producing well (Tract 31 well #1) which has experienced response from waterflood. Forms C-116 are enclosed showing tests before and after stimulation.

Tract 37 Wells #1 and #3 are offset by wells in the Rock Queen Unit (26-15, 35-3) which have responded to waterflood. Forms C-116, prepared by Great Western Drilling Company operator of the Rock Queen Unit, are enclosed.

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 (see attached schematic diagram)

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

Very truly yours,

CITIES SERVICE PETROLEUM COMPANY

A handwritten signature in black ink, appearing to read "E. F. Motter", is written over the typed name.

E. F. Motter
Asst. Division Engineer

EFM/sjb

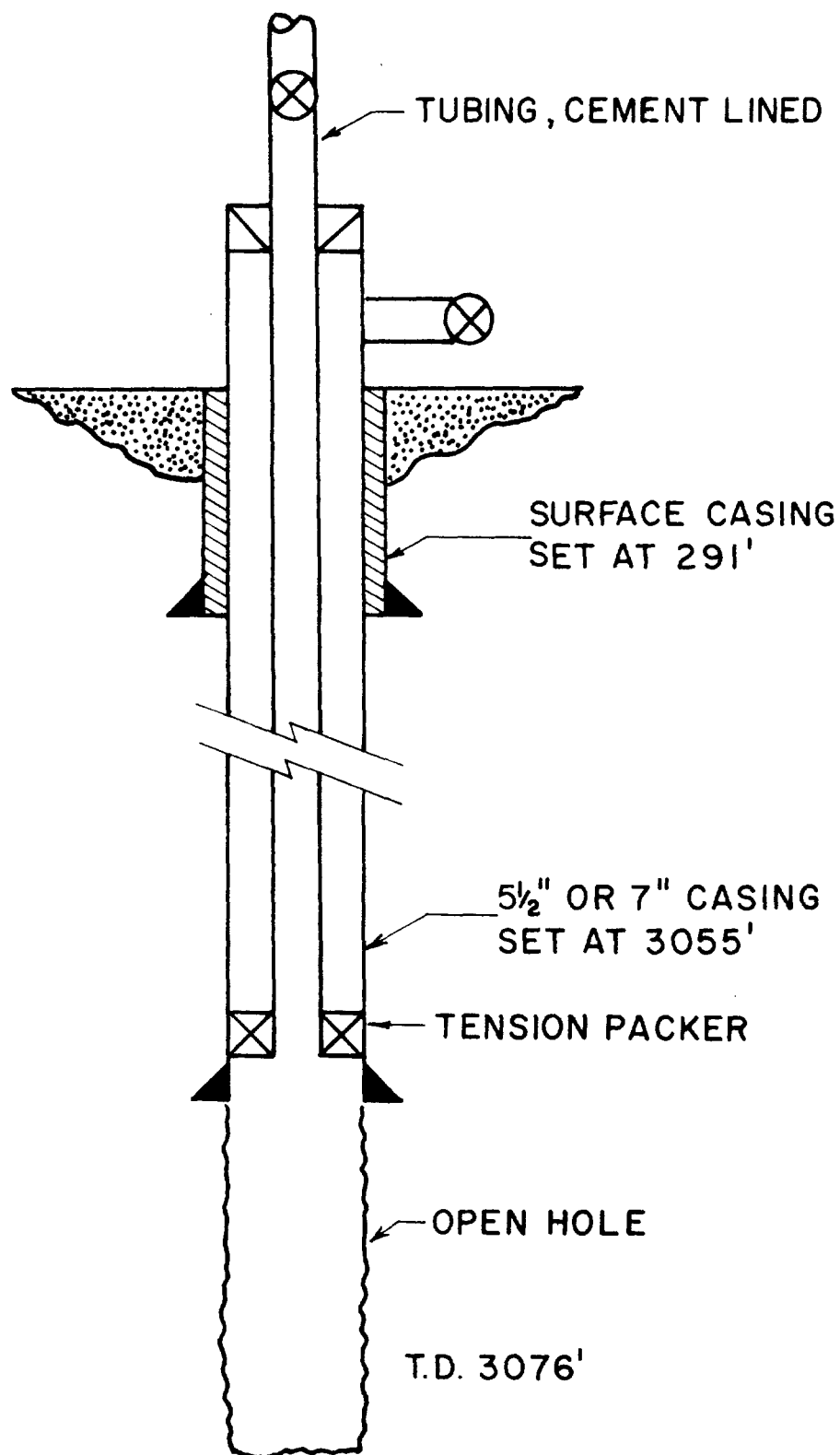
cc: State Engineer
P. O. Box 1069
Santa Fe, New Mexico
Atten: Mr. Frank Irby

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

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

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

CITIES SERVICE PETROLEUM COMPANY



WATER INJECTION WELL SCHEMATIC

DRICKEY QUEEN SAND UNIT

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen
ADDRESS Box 1659, Midland, Texas MONTH OF December, 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	
Rock Queen Unit										
Tract 6	26-15	12-4	P		24	10	0	20	TSTM	
Tract 21	35-3	12-5	P		24	34	0	44	13.2	300
Tests after 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 December 6, 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 November, 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	
Rock Queen Unit										
Tract 6	26-15	11-15	P		24	10	0	9	3.1	350
Tract 21	35-3	11-12	P		24	34	0	34	13.6	400
			Tests before 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 December 5, 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 January, 19 62
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	
Tract 31	1	1-24	P	Open	24	30	0	44	TSTM	TSTM

Test after Stimulation

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

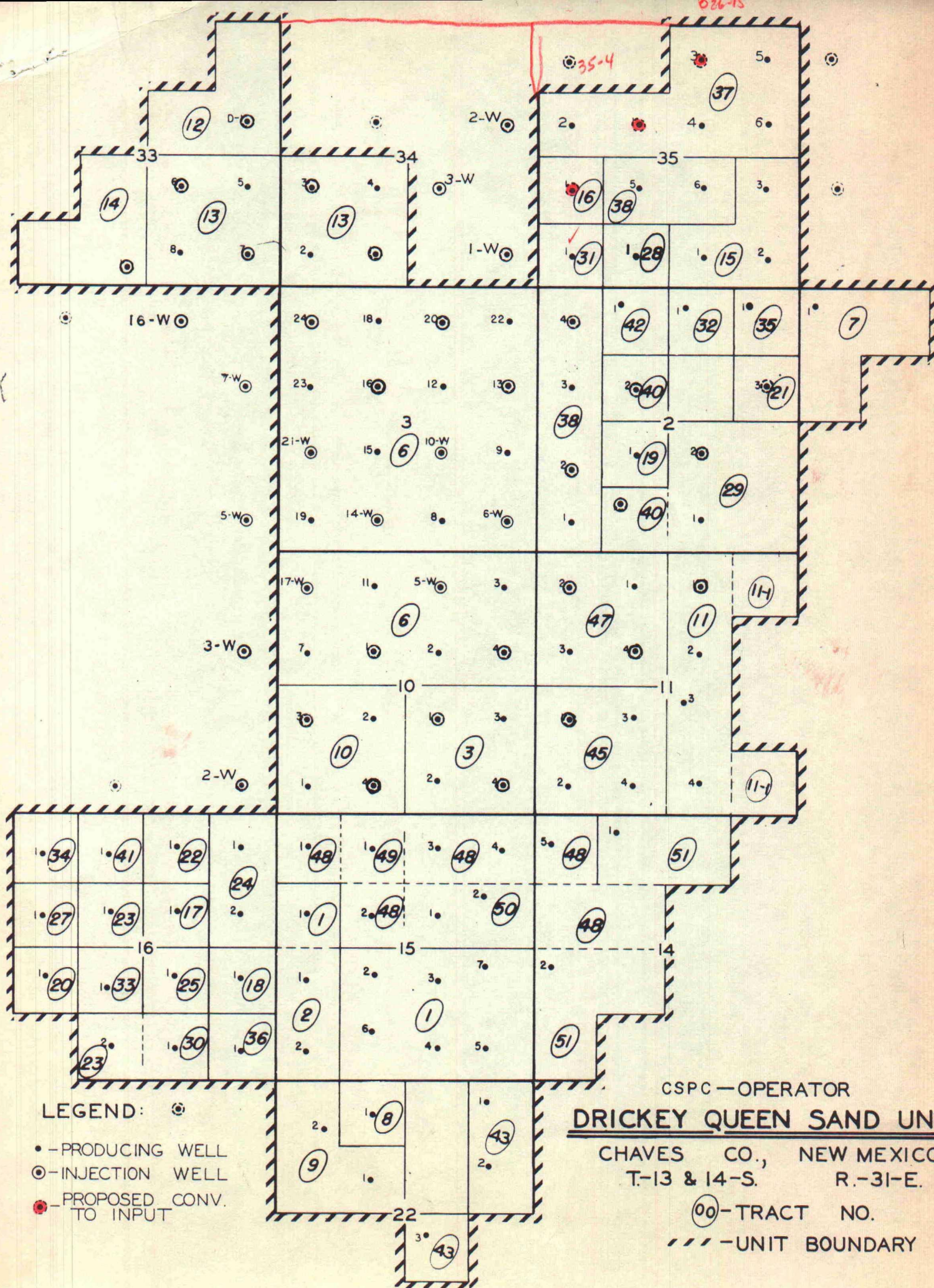
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized 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 February 13, 1962 Cities Service Petroleum Company
By E. O. Lindsey
Production Engineer
Title





OFFICE 000

1962 FEB 27 AM 2:18 STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

February 26, 1962

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 Oil Company dated February 15, 1962, which seeks administrative approval for the conversion of the following wells to water injection:

Tract 16 well #1 NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 35, Township 13 South, Range 31 East.
Tract 37 well #1 SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 35, Township 13 South, Range 31 East.
Tract 37 well #3 NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 35, Township 13 South, Range 31 East.

In view of the statement contained in the application "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" this office offers no objection to the granting of the application.

Yours truly,

S. E. Reynolds
State Engineer

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

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