



WFA-64

Nothing filed  
due date Dec 22

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December 5, 1960

R. C. TUCKER, PRES.

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Oil Conservation Commission,  
Box 871,  
Santa Fe, New Mexico

Re: Application for Administrative Approval for  
Conversion of Unit Wells 23-12 and 23-14 to  
water injection, Rock Queen Unit, Lea &  
Chaves Counties, New Mexico.

Gentlemen:

As provided in the Oil Conservation Commission Order R-1541, Great Western Drilling Company, as operator of the Rock Queen Unit, requests administrative approval for conversion of the following unit wells:

<u>Unit Well No.</u>	<u>Location</u>
23-12	NW/4 of SW/4 of Sec. 23, T-13-S, R-31-E.
23-14	SE/4 of SW/4 of Sec. 23, T-13-S, R-31-E.

Well 23-13, in the Rock Queen Unit, is a direct offset to both of the above wells. Since Dec. 2, Well 23-13 has been stimulated by injection. This well was producing 2 barrels per day on tests November 5 and November 12, 1960. As of December 5, Well 23-13 produced 16 barrels per day.

We respectfully submit that the ultimate recoverable oil from the Rock Queen Unit reservoir will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system unless Wells 23-12 and 23-14 are converted to water injection at this time.

Attached to this application are: The C-116 of Great Western Drilling Company Well No. 23-13, before and after stimulation; a plat of the area showing all producing, water injection and proposed water injection wells; and the offset operators.

Waivers from the offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By O. H. Crews  
O. H. Crews

OHC:TR



## 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 60  
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 33	23-13	12-2	Pump		24	6	0	11	TSTM	
	23-13	12-3	Pump		24	6	0	14	TSTM	
	23-13	12-4	Pump		24	6	0	16	TSTM	
Tests after stimulation by waterflood										

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, 1960

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, 1960  
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 33	23-13	11-5	Pump		24	6	0	2	TSTM	
	23-13	11-12	Pump		24	6	0	3	TSTM	
			Tests before stimulation by waterflood							

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, 1960

GREAT WESTERN DRILLING COMPANY  
Company

By O. H. Crews

Administrative Coordinator

Title

R-31-E

R-32-E

T-13-S

T-13-S

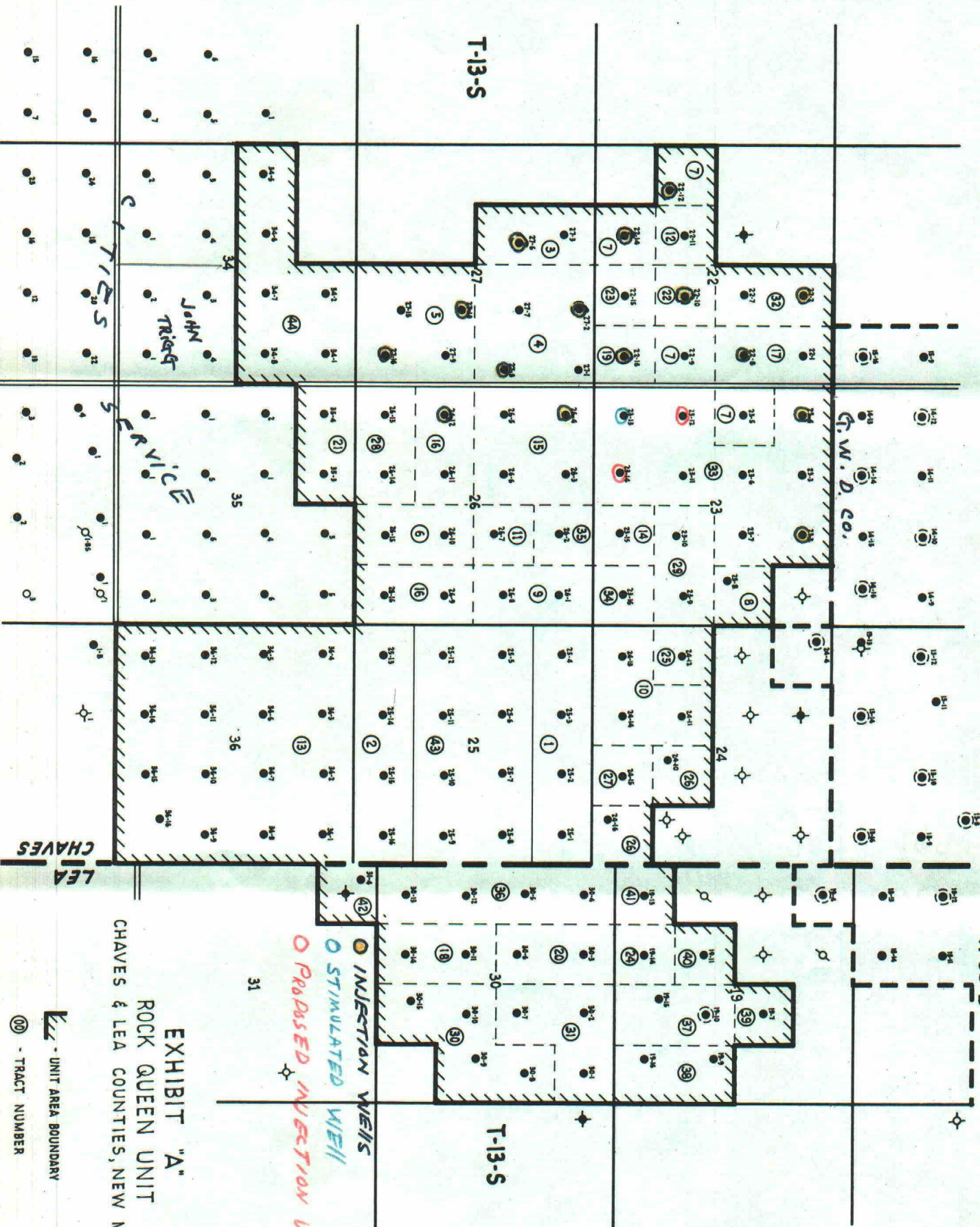
G.W.D. Co.

EXHIBIT "A"  
ROCK QUEEN UNIT  
CHAVES & LEA COUNTIES, NEW MEXICO

INJECTION WELLS  
STIMULATED WELL  
PROPOSED INJECTION WELLS

LEA  
CHAVES

UNIT AREA BOUNDARY  
TRACT NUMBER





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

December 8, 1960

ADDRESS CORRESPONDENCE TO:  
P. O. BOX 1079  
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 Great Western Drilling Company to convert Wells 23-12 and 23-14, Rock Queen Unit to water injection wells.

In view of the fact that injection will be through 2" tubing under a packer set at about 3000 feet, which in each case is well below the top of the cement behind the oil string, it is concluded that a threat of contamination to any fresh waters which may exist in the area is not likely to occur. Therefore, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds  
State Engineer

By:

*Frank E. Irby*  
Frank E. Irby  
Chief

Water Rights Division

ma

cc-Great Western Drilling Co.  
F. H. Hennighausen



R. C. TUCKER, PRES.

December 15, 1960

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Oil Conservation Commission,  
Box 871,  
Santa Fe, New Mexico

Attn: Mr. J. E. Kapteina

Gentlemen:

Enclosed please find all required waivers, properly executed,  
for the expansion of the Rock Queen Unit by conversion of Wells 23-12 and  
23-14 to Injection Wells.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *Officer*

OHC:TR  
enclosures (3)





December 5, 1960

R. C. TUCKER, PRES.

John Trigg,  
Box 5629  
Roswell, New Mexico

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

ILLEGIBLE

Dear Sir:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By OKC

ONE:TR

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

Unit Well No.

Location

23-12

NW/4 of SW/4 of Sec. 23, T-13-S, R-31-E

23-14

SE/4 of SW/4 of Sec. 23, T-13-S, R-31-E

as requested in your application of December 5, 1960.

JOHN TRIGG

By

Date

John H. Trigg  
12-8-60





December 5, 1960

R. C. TUCKER, PRES.

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Cities Service Oil Company,  
Box 97  
Hobbs, New Mexico

Attn: Mr. Geo. Geyer

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R01541. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *Oliver*

OHC:TR

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following wellsto water injection wells:

Unit Well No.

Location

23-12

NW/4 of SW/4 of Sec. 23, T-13-S, R-31-E,

23-14

SE/4 of SW/4 of Sec. 23, T-13-S, R-31-E.

as requested in your application of December 5, 1960.

CITIES SERVICE OIL COMPANY

By *[Signature]*

Date 12/12/60







R. C. TUCKER, PRES.

December 5, 1960

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Great Western Drilling Company,  
Box 1659,  
Midland, Texas

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *OKH*

OHC:TR

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

<u>Unit Well No.</u>	<u>Location</u>
23-12	NW/4 of SW/4 of Sec. 23, T-13-S, R-31-E.
23-14	SE/4 of SW/4 of Sec. 23, T-13-S, R-31-E.

as requested in your application of December 5, 1960.

GREAT WESTERN DRILLING COMPANY

By *OKH*

Date Dec 14, 1960

