



WFX - 73

*Waived
No waiting period*

R. C. TUCKER, PRES.

January 25, 1961

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 wells 23-6 and 23-10 to water
injection, Rock Queen Unit, Lea and Chaves
Counties, New Mexico.

Gentlemen:

As provided in the Oil Conservation Commission Order No. R-1541, Great Western Drilling Company as operator of the Rock Queen Unit, requests administrative approval for conversion of Unit wells, to water injection wells:

Well No. 23-6	SE/4 of NW/4 of Sec. 23, T-13-S, R-31-E
Well No. 23-10	NW/4 of SE/4 of Sec. 23, T-13-S, R-31-E

Chaves County, New Mexico

Well 23-11, in the Rock Queen Unit is a direct offset to the above wells. Since January 20th, stimulation by water injection has increased production on 23-11 from 3 barrels per day to 10 barrels per day as per C-116 forms.

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 23-6 and 23-10 are converted to water injection at this time. Injection is proposed down 2" tubing under a packer set at about 3000' in each well.

Attached to this application are: The C-116 of well 23-11, before and after stimulation; a plat of the area showing producing, water injection, proposed water injection wells and offset operators.

Waivers from offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *[Signature]*

OHC:tr
Encl.



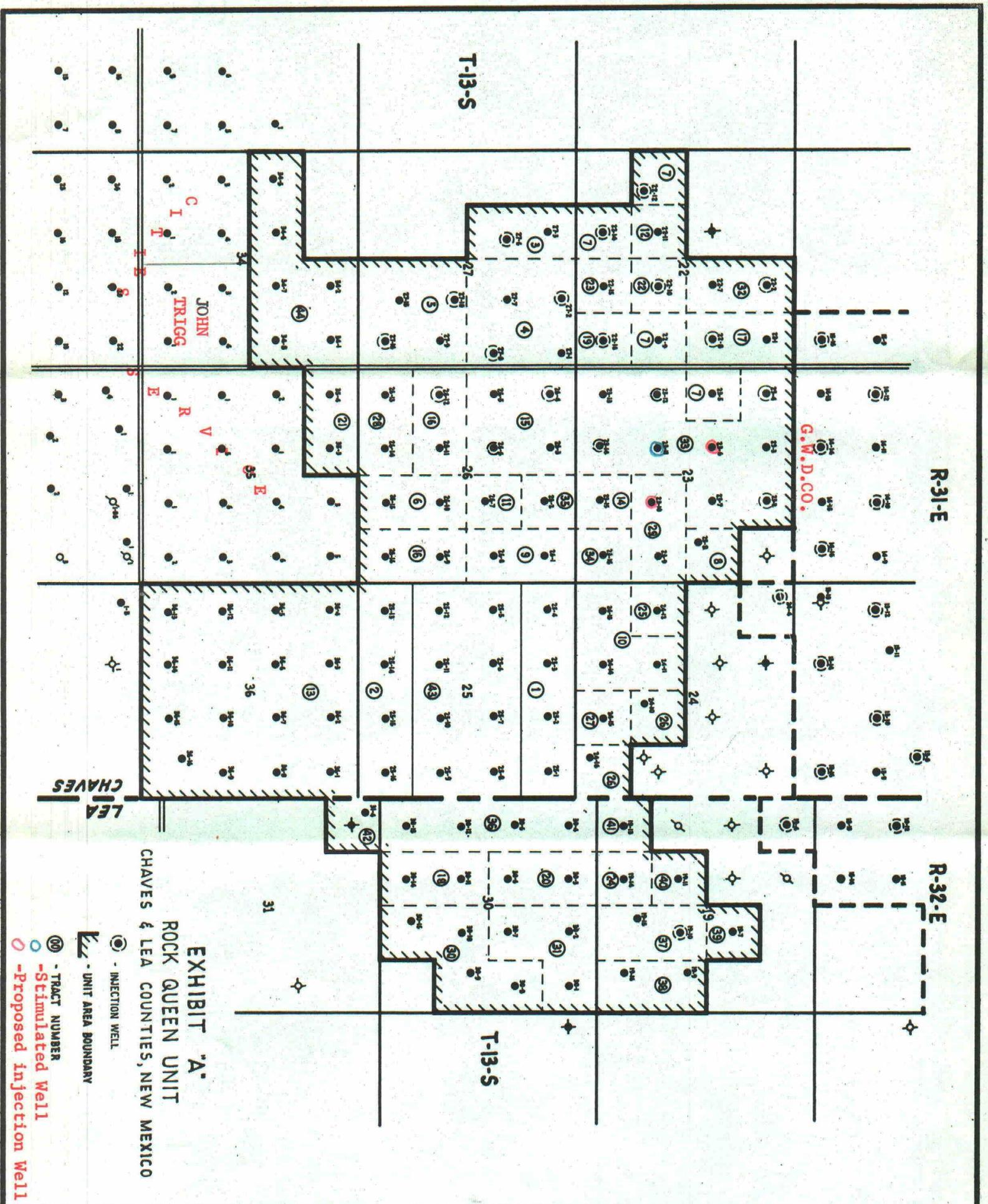


EXHIBIT "A"
 ROCK QUEEN UNIT
 CHAVES & LEA COUNTIES, NEW MEXICO

- - INJECTION WELL
- ◻ - UNIT AREA BOUNDARY
- ① - TRACT NUMBER
- (with blue outline) - Stimulated Well
- (with red outline) - Proposed Injection Well

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen
 ADDRESS Box 1659, Midland, Texas MONTH OF January, 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 Bbbs.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbbs.	Oil Bbbs.	Gas MCF	
Rock Queen Unit Tract 33	23-11	1-24	Pump		24	6	0	10	TSTM	
Test After stimulation by Water Flood										

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 January 25, 1961

Great Western Drilling Company
Company

By O.H. Crews O.H. Crews

Administrative Coordinator
Title



RECEIVED
JAN 27 1961
PM 1:20

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

January 27, 1961

ADDRESS CORRESPONDENCE TO:
P. O. BOX 1079
SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, N.M.

Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company dated January 25, 1961 which seeks administrative approval for the conversion of Wells 23-6 and 23-10, Rock Queen Unit, Lea and Chaves Counties, New Mexico to water injection.

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
Chief
Water Rights Division

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



R. C. TUCKER, PRES.

January 30, 1961

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:

Please find enclosed all required waivers for the expansion of the Rock Queen Unit, Caprock Queen Field, Lea and Chaves Counties, as requested in Great Western Drilling Company's application of January 25, 1961.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. Lewis*

OHC:tr
Encl.





R. C. TUCKER, PRES.

January 25, 1961

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 *O.H. Lewis*

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>
23-6	SE/4 of NW/4 of Sec. 23, T-13-S, R-31-E
23-10	NW/4 of SE/4 of Sec. 23, T-13-S, R-31-E

as requested in your application of January 25, 1961.

GREAT WESTERN DRILLING COMPANY

By *O.H. Lewis*

Date 1-30-61



GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

January 25, 1961

John Trigg
Box 5629,
Roswell, New Mexico

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 *O. H. New*

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>
23-6	SE/4 of NW/4 of Sec. 23, T-13-S, R-31-E
23-10	NW/4 of SE/4 of Sec. 23, T-13-S, R-31-E

as requested in your application of January 25, 1961.

JOHN TRIGG

By *John T. Trigg*

Date *1-27-61*